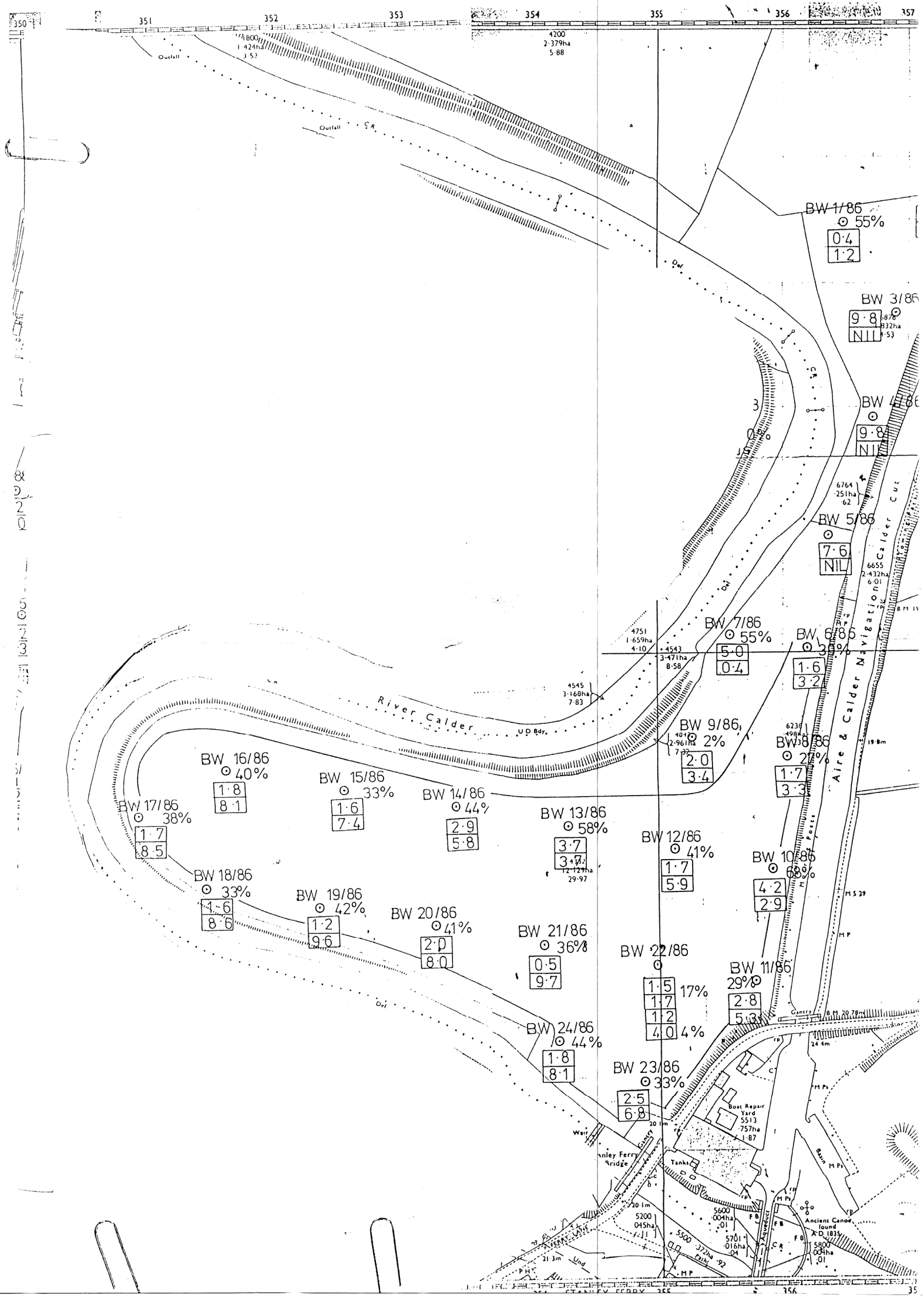
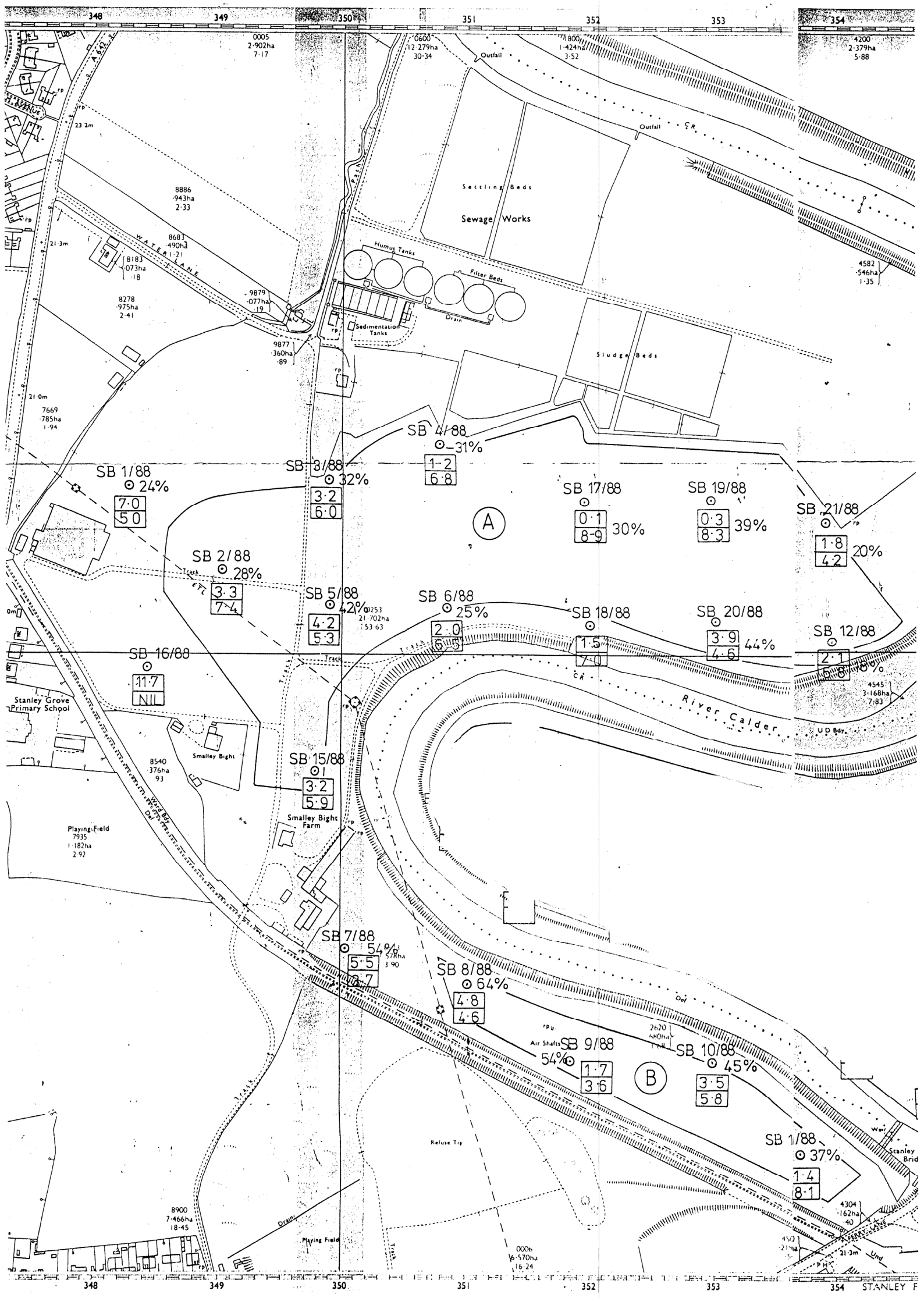
Appendix B

Historic site investigation results


BW 1/86
55%
0·4
1·2
BW 3/86
9·8
NIL
BW 4/86
9·8
NIL
BW 5/86
7·6
NIL
BW 6/86
39%
1·6
3·2
BW 7/86
55%
5·0
0·4
BW 8/86
27%
1·7
3·3
BW 9/86
2%
2·0
3·4
BW 10/86
68%
4·2
2·9
BW 11/86
29%
2·8
5·3
BW 12/86
41%
1·7
5·9
BW 13/86
58%
3·7
BW 14/86
44%
2·9
5·8
BW 15/86
33%
1·6
7·4
BW 16/86
40%
1·8
8·1
BW 17/86
38%
1·7
8·5
BW 18/86
33%
1·6
8·6
BW 19/86
42%
1·2
9·6
BW 20/86
41%
2·0
8·0
BW 21/86
36%
0·5
9·7
BW 22/86
1·5
1·7
1·2
4·0
17%
4%
BW 23/86
33%
2·5
6·8
BW 24/86
44%
1·8
8·1
River Calder
Aire & Calder Navigation
Calder Cut
Outfall
Boat Repair Yard
Tanks
Stanley Ferry Bridge
Aqueduct
Ancient Canoe found
Basin
Weir
Gantry
Path


348
349
350
351
352
353
354
Sewage Works
Settling Beds
Humus Tanks
Filter Beds
Sedimentation Tanks
Sludge Beds
Outfall
WATER LANE
Stanley Grove Primary School
Smalley Bight
Smalley Bight Farm
Playing Field
River Calder
Refuse Tip
Air Shafts
A
B
SB 1/88 24% 7·0 5·0
SB 2/88 28% 3·3 7·4
SB 3/88 32% 3·2 6·0
SB 4/88 31% 1·2 6·8
SB 5/88 42% 4·2 5·3
SB 6/88 25% 2·0 6·5
SB 7/88 54% 5·5 9·7
SB 8/88 64% 4·8 4·6
SB 9/88 54% 1·7 3·6
SB 10/88 45% 3·5 5·8
SB 11/88 37% 1·4 8·1
SB 12/88 16% 2·1 6·8
SB 15/88 1 3·2 5·9
SB 16/88 11·7 NIL
SB 17/88 30% 0·1 8·9
SB 18/88 1·5 7·0
SB 19/88 39% 0·3 8·3
SB 20/88 44% 3·9 4·6
SB 21/88 20% 1·8 4·2

Appendix C

Borehole locations and logs

MWP PLANNING

Minerals and Waste Planning
Environmental Permitting
Quarry Consultant

10 Dobroyd, Shepley, Huddersfield HD8 8AU
Tel: 01484 604026 Mobile: 07794 597515
cjb@mwplanning.co.uk www.mwplanning.co.uk

TITLE
SITE PLAN

CLIENT
DEWSBURY SAND AND GRAVEL LTD
THPONHILL WORKS, CALDER ROAD
DEWSBURY

SITE
BIRKWOOD AND SMALLEY BIGHT FARMS
ALTOFTS
WAKEFIELD

DATE	DRAWN BY	CHECKED BY
19/10/2018	CJB	CJB
DRAWING NO 10168/01	SCALE 1:2500 @ A3	

REV	AMENDMENT	DATE

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LEGEND

Planning Application Boundary

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Appendix D

Modflow configuration files

```
 LISTING FILE: output.dat
                         UNIT   3

 OPENING bas.dat
 FILE TYPE:BAS   UNIT   1

 OPENING bcf.dat
 FILE TYPE:BCF   UNIT  11

 OPENING oc.dat
 FILE TYPE:OC   UNIT  22

 OPENING riv.dat
 FILE TYPE:RIV   UNIT  14

 OPENING rch.dat
 FILE TYPE:RCH   UNIT  18

 OPENING pcg2.dat
 FILE TYPE:PCG   UNIT  23

 OPENING budget.dat
 FILE TYPE:DATA(BINARY)   UNIT  50

 OPENING heads.dat
 FILE TYPE:DATA(BINARY)   UNIT  51

 OPENING ddown.dat
 FILE TYPE:DATA(BINARY)   UNIT  52

 OPENING mt3d.flo
 FILE TYPE:DATA(BINARY)   UNIT  32
1                                MODFLOW
      U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW MODEL



 THE FREE FORMAT OPTION HAS BEEN SELECTED
    2 LAYERS        46 ROWS        40 COLUMNS
   1 STRESS PERIOD(S) IN SIMULATION
 MODEL TIME UNIT IS SECONDS

 BAS5 -- BASIC MODEL PACKAGE, VERSION 5, 1/1/95 INPUT READ FROM UNIT  1
 ARRAYS RHS AND BUFF WILL HAVE SEPARATE MEMORY ALLOCATIONS
 INITIAL HEAD WILL BE KEPT THROUGHOUT THE SIMULATION
      38734 ELEMENTS IN X ARRAY ARE USED BY BAS
      38734 ELEMENTS OF X ARRAY USED OUT OF  999999990

 BCF5 -- BLOCK-CENTERED FLOW PACKAGE, VERSION 5, 9/1/93 INPUT READ FROM UNIT 11
 STEADY-STATE SIMULATION
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 50
 HEAD AT CELLS THAT CONVERT TO DRY= -0.10000E+31
 WETTING CAPABILITY IS NOT ACTIVE
      LAYER  LAYER-TYPE CODE     INTERBLOCK T
      ---------------------------------------------
         1            3          0 -- HARMONIC
         2            3          0 -- HARMONIC
      11042 ELEMENTS IN X ARRAY ARE USED BY BCF
      49776 ELEMENTS OF X ARRAY USED OUT OF  999999990

 RIV5 -- RIVER PACKAGE, VERSION 5, 9/1/93 INPUT READ FROM UNIT 14
 MAXIMUM OF 2116 RIVER REACHES
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 50
      12696 ELEMENTS IN X ARRAY ARE USED BY RIV
      62472 ELEMENTS OF X ARRAY USED OUT OF  999999990
```



```
 RCH5 -- RECHARGE PACKAGE, VERSION 5, 6/1/95 INPUT READ FROM UNIT 18
 OPTION 3 -- RECHARGE TO HIGHEST ACTIVE NODE IN EACH VERTICAL COLUMN
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 50
       3680 ELEMENTS IN X ARRAY ARE USED BY RCH
      66152 ELEMENTS OF X ARRAY USED OUT OF  999999990
0PCG2 -- CONJUGATE GRADIENT SOLUTION PACKAGE, VERSION 2.1, 6/1/95
 MAXIMUM OF  50 CALLS OF SOLUTION ROUTINE
 MAXIMUM OF  30 INTERNAL ITERATIONS PER CALL TO SOLUTION ROUTINE
 MATRIX PRECONDITIONING TYPE :    1
   28220 ELEMENTS IN X ARRAY ARE USED BY PCG
   94372 ELEMENTS OF X ARRAY USED OUT OF*******
1




                      BOUNDARY ARRAY FOR LAYER   1
 READING ON UNIT   1 WITH FORMAT: (15I3)



                      BOUNDARY ARRAY FOR LAYER   2
 READING ON UNIT   1 WITH FORMAT: (15I3)

 AQUIFER HEAD WILL BE SET TO -999.99     AT ALL NO-FLOW NODES (IBOUND=0).



                        INITIAL HEAD FOR LAYER   1
 READING ON UNIT   1 WITH FORMAT: (15G14.0)



                        INITIAL HEAD FOR LAYER   2
 READING ON UNIT   1 WITH FORMAT: (15G14.0)

 OUTPUT CONTROL IS SPECIFIED EVERY TIME STEP
 HEAD PRINT FORMAT CODE IS   0    DRAWDOWN PRINT FORMAT CODE IS   0
 HEADS WILL BE SAVED ON UNIT  51    DRAWDOWNS WILL BE SAVED ON UNIT  52



           COLUMN TO ROW ANISOTROPY
 READING ON UNIT  11 WITH FORMAT: (2G14.0)



                                DELR
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                                DELC
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



              HYD. COND. ALONG ROWS FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                              BOTTOM FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)
```

```
          VERT HYD COND /THICKNESS FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                              TOP FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



             HYD. COND. ALONG ROWS FOR LAYER   2
 READING ON UNIT  11 WITH FORMAT: (15G14.0)

                  BOTTOM =   10.00000     FOR LAYER   2



                              TOP FOR LAYER   2
 READING ON UNIT  11 WITH FORMAT: (15G14.0)
0


                                                        SOLUTION BY THE CONJUGATE-GRADIENT
METHOD

-----------------------------------------
0                                   MAXIMUM NUMBER OF CALLS TO PCG ROUTINE =       50
                                        MAXIMUM ITERATIONS PER CALL TO PCG =       30
                                               MATRIX PRECONDITIONING TYPE =        1
                          RELAXATION FACTOR (ONLY USED WITH PRECOND. TYPE 1) =
0.99000E+00
                     PARAMETER OF POLYMOMIAL PRECOND. = 2 (2) OR IS CALCULATED :        2
                                         HEAD CHANGE CRITERION FOR CLOSURE =
0.10000E-02
                                    RESIDUAL CHANGE CRITERION FOR CLOSURE =
0.10000E-02
                              PCG HEAD AND RESIDUAL CHANGE PRINTOUT INTERVAL =        1
                        PRINTING FROM SOLVER IS LIMITED(1) OR SUPPRESSED (>1) =        0
                                                       DAMPING PARAMETER =
0.10000E+01
1
                           STRESS PERIOD NO.   1, LENGTH =   1.000000
                           -------------------------------------------

                             NUMBER OF TIME STEPS =     1

                              MULTIPLIER FOR DELT =     1.000

                           INITIAL TIME STEP SIZE =   1.000000


   116 RIVER REACHES

 LAYER   ROW   COL     STAGE   CONDUCTANCE   BOT. ELEV.  REACH NO.
 ------------------------------------------------------------------
    2     45    35   0.5000      0.4098E-05   14.76           1
    2     45    34   0.5000      0.9457E-05   14.74           2
    2     44    34   0.5000      0.9297E-05   14.71           3
    2     44    34   0.5000      0.4147E-05   14.69           4
    2     43    34   0.5000      0.1320E-04   14.66           5
    2     42    34   0.5000      0.6995E-05   14.63           6
    2     41    34   0.5000      0.8645E-05   14.57           7
    2     40    34   0.5000      0.1318E-04   14.54           8
    2     39    33   0.5000      0.5622E-05   14.47           9
```



```
    2     38    33   0.5000      0.9719E-05   14.44          10
    2     38    32   0.5000      0.1184E-04   14.40          11
    2     37    32   0.5000      0.3496E-05   14.37          12
    2     37    31   0.5000      0.1534E-04   14.33          13
    2     37    30   0.5000      0.2727E-05   14.30          14
    2     36    30   0.5000      0.1261E-04   14.27          15
    2     35    29   0.5000      0.1534E-04   14.22          16
    2     35    28   0.5000      0.4391E-05   14.18          17
    2     34    28   0.5000      0.1095E-04   14.15          18
    2     34    27   0.5000      0.1061E-04   14.11          19
    2     33    27   0.5000      0.4727E-05   14.08          20
    2     33    26   0.5000      0.7670E-05   14.05          21
    2     33    25   0.5000      0.7670E-05   14.02          22
    2     33    24   0.5000      0.1650E-05   14.00          23
    2     32    24   0.5000      0.5507E-05   14.00          24
    2     32    23   0.5000      0.8052E-05   14.00          25
    2     31    22   0.5000      0.5980E-05   14.00          26
    2     31    21   0.5000      0.7637E-05   14.00          27
    2     30    20   0.5000      0.7245E-05   14.00          28
    2     30    19   0.5000      0.2990E-05   14.00          29
    2     29    19   0.5000      0.4903E-05   14.00          30
    2     29    18   0.5000      0.5971E-05   14.00          31
    2     28    18   0.5000      0.1614E-05   14.00          32
    2     28    17   0.5000      0.6630E-05   13.99          33
    2     28    16   0.5000      0.6630E-05   13.97          34
    2     28    15   0.5000      0.2697E-05   13.95          35
    2     27    15   0.5000      0.3933E-05   13.94          36
    2     27    14   0.5000      0.6630E-05   13.93          37
    2     27    13   0.5000      0.6382E-05   13.91          38
    2     26    13   0.5000      0.3066E-05   13.90          39
    2     26    12   0.5000      0.3449E-05   13.90          40
    2     25    12   0.5000      0.6515E-05   13.90          41
    2     24    12   0.5000      0.3257E-05   13.90          42
    2     24    12   0.5000      0.4908E-05   13.90          43
    2     23    13   0.5000      0.8038E-05   13.90          44
    2     23    14   0.5000      0.1573E-05   13.90          45
    2     23    14   0.5000      0.5213E-05   13.89          46
    2     23    15   0.5000      0.6468E-05   13.88          47
    2     23    16   0.5000      0.6468E-05   13.86          48
    2     23    17   0.5000      0.6468E-05   13.84          49
    2     24    18   0.5000      0.6468E-05   13.83          50
    2     24    19   0.5000      0.6692E-05   13.81          51
    2     24    20   0.5000      0.6457E-05   13.80          52
    2     24    21   0.5000      0.4481E-05   13.80          53
    2     23    21   0.5000      0.3963E-05   13.79          54
    2     23    22   0.5000      0.3027E-05   13.77          55
    2     22    22   0.5000      0.7320E-05   13.74          56
    2     21    22   0.5000      0.1661E-05   13.72          57
    2     21    23   0.5000      0.5658E-05   13.70          58
    2     20    23   0.5000      0.7320E-05   13.66          59
    2     19    24   0.5000      0.7520E-05   13.62          60
    2     18    24   0.5000      0.8744E-05   13.60          61
    2     17    23   0.5000      0.6967E-05   13.56          62
    2     17    22   0.5000      0.4394E-05   13.52          63
    2     16    22   0.5000      0.2573E-05   13.49          64
    2     16    21   0.5000      0.6967E-05   13.45          65
    2     16    20   0.5000      0.4609E-05   13.40          66
    2     15    20   0.5000      0.2357E-05   13.37          67
    2     15    19   0.5000      0.6967E-05   13.33          68
    2     15    18   0.5000      0.4825E-05   13.28          69
    2     14    18   0.5000      0.2142E-05   13.25          70
    2     14    17   0.5000      0.6967E-05   13.22          71
    2     14    16   0.5000      0.5040E-05   13.17          72
    2     13    16   0.5000      0.1927E-05   13.14          73
    2     13    15   0.5000      0.6967E-05   13.10          74
    2     13    14   0.5000      0.5255E-05   13.05          75
```

2	12	14	0.5000	0.1712E-05	13.02	76
2	12	13	0.5000	0.1903E-05	13.01	77
2	12	13	0.5000	0.7785E-05	13.00	78
2	12	13	0.5000	0.2152E-05	12.99	79
2	12	14	0.5000	0.2971E-05	12.98	80
2	11	14	0.5000	0.4907E-05	12.96	81
2	11	15	0.5000	0.7878E-05	12.93	82
2	11	16	0.5000	0.7878E-05	12.89	83
2	10	17	0.5000	0.7878E-05	12.85	84
2	10	18	0.5000	0.7878E-05	12.81	85
2	10	19	0.5000	0.4654E-05	12.78	86
2	9	19	0.5000	0.3224E-05	12.76	87
2	9	20	0.5000	0.7878E-05	12.73	88
2	9	21	0.5000	0.7878E-05	12.69	89
2	9	22	0.5000	0.1557E-05	12.67	90
2	8	22	0.5000	0.6321E-05	12.65	91
2	8	23	0.5000	0.6086E-05	12.62	92
2	8	23	0.5000	0.1503E-05	12.60	93
2	8	24	0.5000	0.6610E-05	12.57	94
2	8	25	0.5000	0.6610E-05	12.53	95
2	8	26	0.5000	0.8484E-05	12.48	96
2	9	27	0.5000	0.8192E-05	12.43	97
2	9	27	0.5000	0.2982E-05	12.39	98
2	9	28	0.5000	0.1250E-04	12.34	99
2	9	29	0.5000	0.1372E-04	12.25	100
2	9	30	0.5000	0.1226E-04	12.16	101
2	9	31	0.5000	0.1359E-04	12.07	102
2	10	32	0.5000	0.2721E-05	12.01	103
2	10	32	0.5000	0.1013E-04	11.98	104
2	9	33	0.5000	0.1267E-04	11.92	105
2	9	34	0.5000	0.1267E-04	11.86	106
2	9	35	0.5000	0.6459E-05	11.82	107
2	9	35	0.5000	0.8008E-05	11.78	108
2	9	36	0.5000	0.2931E-05	11.75	109
2	8	36	0.5000	0.1341E-04	11.70	110
2	8	37	0.5000	0.6000E-05	11.65	111
2	7	37	0.5000	0.5916E-05	11.62	112
2	7	37	0.5000	0.6557E-05	11.58	113
2	8	38	0.5000	0.1296E-04	11.53	114
2	8	39	0.5000	0.8549E-05	11.47	115
2	9	39	0.5000	0.6811E-05	11.43	116

RECHARGE

READING ON UNIT 18 WITH FORMAT: (15G14.0)

CELL CONVERSIONS FOR ITER.= 1 LAYER= 1 STEP= 1 PERIOD= 1 (ROW,COL)

DRY(2, 40)	DRY(3, 40)	DRY(4, 40)	DRY(5, 40)	DRY(6, 40)
DRY(7, 23)	DRY(7, 24)	DRY(7, 40)	DRY(8, 20)	DRY(8, 21)
DRY(8, 22)	DRY(8, 23)	DRY(8, 24)	DRY(8, 40)	DRY(9, 18)
DRY(9, 19)	DRY(9, 20)	DRY(9, 21)	DRY(9, 22)	DRY(9, 23)
DRY(9, 24)	DRY(9, 25)	DRY(9, 26)	DRY(9, 40)	DRY(10, 16)
DRY(10, 17)	DRY(10, 18)	DRY(10, 19)	DRY(10, 20)	DRY(10, 21)
DRY(10, 22)	DRY(10, 23)	DRY(10, 24)	DRY(10, 25)	DRY(10, 26)
DRY(11, 14)	DRY(11, 15)	DRY(11, 16)	DRY(11, 17)	DRY(11, 18)
DRY(11, 19)	DRY(11, 20)	DRY(11, 21)	DRY(11, 22)	DRY(11, 23)
DRY(11, 24)	DRY(11, 25)	DRY(11, 26)	DRY(11, 27)	DRY(12, 13)
DRY(12, 14)	DRY(12, 15)	DRY(12, 16)	DRY(12, 17)	DRY(12, 18)
DRY(12, 19)	DRY(12, 20)	DRY(12, 21)	DRY(12, 22)	DRY(12, 23)
DRY(12, 24)	DRY(12, 25)	DRY(12, 26)	DRY(12, 27)	DRY(13, 13)
DRY(13, 14)	DRY(13, 15)	DRY(13, 16)	DRY(13, 17)	DRY(13, 18)
DRY(13, 19)	DRY(13, 20)	DRY(13, 21)	DRY(13, 22)	DRY(13, 23)
DRY(13, 24)	DRY(13, 25)	DRY(14, 12)	DRY(14, 13)	DRY(14, 14)
DRY(14, 15)	DRY(14, 16)	DRY(14, 17)	DRY(14, 18)	DRY(14, 19)
DRY(14, 20)	DRY(14, 21)	DRY(14, 22)	DRY(14, 23)	DRY(14, 24)

DRY(15, 12)	DRY(15, 13)	DRY(15, 14)	DRY(15, 15)	DRY(15, 16)
DRY(15, 17)	DRY(15, 18)	DRY(15, 19)	DRY(15, 20)	DRY(15, 21)
DRY(15, 22)	DRY(15, 23)	DRY(15, 24)	DRY(16, 12)	DRY(16, 13)
DRY(16, 14)	DRY(16, 15)	DRY(16, 16)	DRY(16, 17)	DRY(16, 18)
DRY(16, 19)	DRY(16, 20)	DRY(16, 21)	DRY(16, 22)	DRY(16, 23)
DRY(16, 24)	DRY(16, 25)	DRY(17, 11)	DRY(17, 12)	DRY(17, 13)
DRY(17, 14)	DRY(17, 15)	DRY(17, 16)	DRY(17, 17)	DRY(17, 18)
DRY(17, 19)	DRY(17, 20)	DRY(17, 21)	DRY(17, 22)	DRY(17, 23)
DRY(17, 24)	DRY(17, 25)	DRY(18, 11)	DRY(18, 12)	DRY(18, 13)
DRY(18, 14)	DRY(18, 15)	DRY(18, 16)	DRY(18, 17)	DRY(18, 18)
DRY(18, 19)	DRY(18, 20)	DRY(18, 21)	DRY(18, 22)	DRY(18, 23)
DRY(18, 24)	DRY(18, 25)	DRY(19, 11)	DRY(19, 12)	DRY(19, 13)
DRY(19, 14)	DRY(19, 15)	DRY(19, 16)	DRY(19, 17)	DRY(19, 18)
DRY(19, 19)	DRY(19, 20)	DRY(19, 21)	DRY(19, 22)	DRY(19, 23)
DRY(19, 24)	DRY(20, 12)	DRY(20, 13)	DRY(20, 14)	DRY(20, 15)
DRY(20, 16)	DRY(20, 17)	DRY(20, 18)	DRY(20, 19)	DRY(20, 20)
DRY(20, 21)	DRY(20, 22)	DRY(20, 23)	DRY(20, 24)	DRY(21, 11)
DRY(21, 12)	DRY(21, 13)	DRY(21, 14)	DRY(21, 15)	DRY(21, 16)
DRY(21, 17)	DRY(21, 18)	DRY(21, 19)	DRY(21, 20)	DRY(21, 21)
DRY(21, 22)	DRY(21, 23)	DRY(21, 24)	DRY(22, 11)	DRY(22, 12)
DRY(22, 13)	DRY(22, 14)	DRY(22, 15)	DRY(22, 16)	DRY(22, 17)
DRY(22, 18)	DRY(22, 19)	DRY(22, 20)	DRY(22, 21)	DRY(22, 22)
DRY(22, 23)	DRY(22, 24)	DRY(23, 10)	DRY(23, 11)	DRY(23, 12)
DRY(23, 13)	DRY(23, 14)	DRY(23, 15)	DRY(23, 16)	DRY(23, 17)
DRY(23, 18)	DRY(23, 19)	DRY(23, 20)	DRY(23, 21)	DRY(23, 22)
DRY(23, 23)	DRY(23, 24)	DRY(24, 10)	DRY(24, 11)	DRY(24, 12)
DRY(24, 13)	DRY(24, 14)	DRY(24, 15)	DRY(24, 16)	DRY(24, 17)
DRY(24, 18)	DRY(24, 19)	DRY(24, 20)	DRY(24, 21)	DRY(24, 22)
DRY(24, 23)	DRY(24, 24)	DRY(24, 25)	DRY(25, 10)	DRY(25, 11)
DRY(25, 12)	DRY(25, 13)	DRY(25, 14)	DRY(25, 15)	DRY(25, 16)
DRY(25, 17)	DRY(25, 18)	DRY(25, 19)	DRY(25, 20)	DRY(25, 21)
DRY(25, 22)	DRY(25, 23)	DRY(25, 24)	DRY(25, 27)	DRY(26, 11)
DRY(26, 12)	DRY(26, 13)	DRY(26, 14)	DRY(26, 15)	DRY(26, 16)
DRY(26, 17)	DRY(26, 18)	DRY(26, 19)	DRY(26, 20)	DRY(26, 21)
DRY(26, 22)	DRY(26, 23)	DRY(26, 24)	DRY(26, 25)	DRY(26, 26)
DRY(26, 27)	DRY(27, 11)	DRY(27, 12)	DRY(27, 13)	DRY(27, 14)
DRY(27, 15)	DRY(27, 16)	DRY(27, 17)	DRY(27, 18)	DRY(27, 19)
DRY(27, 20)	DRY(27, 21)	DRY(27, 22)	DRY(27, 23)	DRY(27, 24)
DRY(27, 25)	DRY(27, 26)	DRY(27, 27)	DRY(27, 28)	DRY(28, 11)
DRY(28, 12)	DRY(28, 13)	DRY(28, 14)	DRY(28, 15)	DRY(28, 16)
DRY(28, 17)	DRY(28, 18)	DRY(28, 19)	DRY(28, 20)	DRY(28, 21)
DRY(28, 22)	DRY(28, 23)	DRY(28, 24)	DRY(28, 25)	DRY(28, 26)
DRY(28, 27)	DRY(28, 28)	DRY(29, 11)	DRY(29, 12)	DRY(29, 13)
DRY(29, 14)	DRY(29, 15)	DRY(29, 16)	DRY(29, 17)	DRY(29, 18)
DRY(29, 19)	DRY(29, 20)	DRY(29, 21)	DRY(29, 22)	DRY(29, 23)
DRY(29, 24)	DRY(29, 25)	DRY(29, 26)	DRY(29, 27)	DRY(29, 28)
DRY(29, 29)	DRY(30, 10)	DRY(30, 11)	DRY(30, 12)	DRY(30, 13)
DRY(30, 14)	DRY(30, 15)	DRY(30, 16)	DRY(30, 17)	DRY(30, 18)
DRY(30, 19)	DRY(30, 20)	DRY(30, 21)	DRY(30, 22)	DRY(30, 23)
DRY(30, 24)	DRY(30, 25)	DRY(30, 26)	DRY(30, 27)	DRY(30, 28)
DRY(30, 29)	DRY(31, 10)	DRY(31, 11)	DRY(31, 12)	DRY(31, 13)
DRY(31, 14)	DRY(31, 15)	DRY(31, 16)	DRY(31, 17)	DRY(31, 18)
DRY(31, 19)	DRY(31, 20)	DRY(31, 21)	DRY(31, 22)	DRY(31, 23)
DRY(31, 24)	DRY(31, 25)	DRY(31, 26)	DRY(31, 27)	DRY(31, 28)
DRY(31, 29)	DRY(31, 30)	DRY(32, 10)	DRY(32, 11)	DRY(32, 12)
DRY(32, 13)	DRY(32, 14)	DRY(32, 15)	DRY(32, 16)	DRY(32, 17)
DRY(32, 18)	DRY(32, 19)	DRY(32, 20)	DRY(32, 21)	DRY(32, 22)
DRY(32, 23)	DRY(32, 24)	DRY(32, 25)	DRY(32, 26)	DRY(32, 27)
DRY(32, 28)	DRY(32, 29)	DRY(32, 30)	DRY(33, 10)	DRY(33, 11)
DRY(33, 12)	DRY(33, 13)	DRY(33, 14)	DRY(33, 15)	DRY(33, 16)
DRY(33, 17)	DRY(33, 18)	DRY(33, 19)	DRY(33, 20)	DRY(33, 21)
DRY(33, 22)	DRY(33, 23)	DRY(33, 24)	DRY(33, 25)	DRY(33, 26)
DRY(33, 27)	DRY(33, 28)	DRY(33, 29)	DRY(33, 30)	DRY(34, 15)
DRY(34, 16)	DRY(34, 17)	DRY(34, 18)	DRY(34, 19)	DRY(34, 20)
DRY(34, 21)	DRY(34, 22)	DRY(34, 23)	DRY(34, 24)	DRY(34, 25)
DRY(34, 26)	DRY(34, 27)	DRY(34, 28)	DRY(34, 29)	DRY(34, 30)

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   DRY( 35, 16)   DRY( 35, 17)   DRY( 35, 18)   DRY( 35, 19)   DRY( 35, 20)
   DRY( 35, 21)   DRY( 35, 22)   DRY( 35, 23)   DRY( 35, 24)   DRY( 35, 25)
   DRY( 35, 26)   DRY( 35, 27)   DRY( 35, 28)   DRY( 35, 29)   DRY( 35, 30)
   DRY( 35, 31)   DRY( 36, 16)   DRY( 36, 17)   DRY( 36, 18)   DRY( 36, 19)
   DRY( 36, 20)   DRY( 36, 21)   DRY( 36, 22)   DRY( 36, 23)   DRY( 36, 24)
   DRY( 36, 25)   DRY( 36, 26)   DRY( 36, 27)   DRY( 36, 28)   DRY( 36, 29)
   DRY( 36, 30)   DRY( 36, 31)   DRY( 36, 32)   DRY( 37, 19)   DRY( 37, 20)
   DRY( 37, 21)   DRY( 37, 22)   DRY( 37, 23)   DRY( 37, 24)   DRY( 37, 25)
   DRY( 37, 26)   DRY( 37, 27)   DRY( 37, 28)   DRY( 37, 29)   DRY( 37, 30)
   DRY( 37, 31)   DRY( 37, 32)   DRY( 38, 21)   DRY( 38, 22)   DRY( 38, 23)
   DRY( 38, 24)   DRY( 38, 25)   DRY( 38, 26)   DRY( 38, 27)   DRY( 38, 28)
   DRY( 38, 29)   DRY( 38, 30)   DRY( 38, 31)   DRY( 38, 32)   DRY( 38, 33)
   DRY( 39, 19)   DRY( 39, 20)   DRY( 39, 21)   DRY( 39, 22)   DRY( 39, 23)
   DRY( 39, 24)   DRY( 39, 25)   DRY( 39, 26)   DRY( 39, 27)   DRY( 39, 28)
   DRY( 39, 29)   DRY( 39, 30)   DRY( 39, 31)   DRY( 39, 32)   DRY( 39, 33)
   DRY( 40, 17)   DRY( 40, 18)   DRY( 40, 19)   DRY( 40, 20)   DRY( 40, 21)
   DRY( 40, 22)   DRY( 40, 23)   DRY( 40, 24)   DRY( 40, 25)   DRY( 40, 26)
   DRY( 40, 27)   DRY( 40, 28)   DRY( 40, 29)   DRY( 40, 30)   DRY( 40, 31)
   DRY( 40, 32)   DRY( 40, 33)   DRY( 40, 34)   DRY( 41, 23)   DRY( 41, 24)
   DRY( 41, 25)   DRY( 41, 26)   DRY( 41, 27)   DRY( 41, 28)   DRY( 41, 29)
   DRY( 41, 30)   DRY( 41, 31)   DRY( 41, 32)   DRY( 41, 33)   DRY( 41, 34)
   DRY( 42, 23)   DRY( 42, 24)   DRY( 42, 25)   DRY( 42, 26)   DRY( 42, 27)
   DRY( 42, 28)   DRY( 42, 29)   DRY( 42, 30)   DRY( 42, 31)   DRY( 42, 32)
   DRY( 42, 33)   DRY( 42, 34)   DRY( 43, 26)   DRY( 43, 27)   DRY( 43, 28)
   DRY( 43, 29)   DRY( 43, 30)   DRY( 43, 31)   DRY( 43, 32)   DRY( 43, 33)
   DRY( 43, 34)   DRY( 44, 27)   DRY( 44, 28)   DRY( 44, 29)   DRY( 44, 30)
   DRY( 44, 31)   DRY( 44, 32)   DRY( 44, 33)   DRY( 44, 34)   DRY( 44, 35)
   DRY( 45, 28)   DRY( 45, 29)   DRY( 45, 30)   DRY( 45, 31)   DRY( 45, 32)
   DRY( 45, 33)   DRY( 45, 34)   DRY( 45, 35)   DRY( 46, 28)   DRY( 46, 29)
   DRY( 46, 30)   DRY( 46, 31)   DRY( 46, 32)   DRY( 46, 33)   DRY( 46, 34)
   DRY( 46, 35)

 CELL CONVERSIONS FOR ITER.=  2  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(  3, 39)   DRY(  4, 36)   DRY(  4, 37)   DRY(  4, 38)   DRY(  4, 39)
   DRY(  5, 32)   DRY(  5, 33)   DRY(  5, 34)   DRY(  5, 35)   DRY(  5, 36)
   DRY(  5, 37)   DRY(  5, 38)   DRY(  5, 39)   DRY(  6, 29)   DRY(  6, 30)
   DRY(  6, 31)   DRY(  6, 32)   DRY(  6, 33)   DRY(  6, 34)   DRY(  6, 35)
   DRY(  6, 36)   DRY(  6, 37)   DRY(  6, 38)   DRY(  6, 39)   DRY(  7, 26)
   DRY(  7, 27)   DRY(  7, 28)   DRY(  7, 29)   DRY(  7, 30)   DRY(  7, 31)
   DRY(  7, 32)   DRY(  7, 33)   DRY(  7, 34)   DRY(  7, 35)   DRY(  7, 36)
   DRY(  7, 37)   DRY(  7, 38)   DRY(  7, 39)   DRY(  8, 27)   DRY(  8, 28)
   DRY(  8, 29)   DRY(  8, 30)   DRY(  8, 31)   DRY(  8, 32)   DRY(  8, 33)
   DRY(  8, 34)   DRY(  8, 35)   DRY(  8, 36)   DRY(  8, 37)   DRY(  8, 38)
   DRY(  8, 39)   DRY(  9, 27)   DRY(  9, 28)   DRY(  9, 29)   DRY(  9, 30)
   DRY(  9, 31)   DRY(  9, 32)   DRY(  9, 33)   DRY(  9, 34)   DRY(  9, 35)
   DRY(  9, 36)   DRY(  9, 37)   DRY(  9, 38)   DRY(  9, 39)   DRY( 10, 28)
   DRY( 10, 29)   DRY( 10, 30)   DRY( 10, 31)   DRY( 10, 32)   DRY( 10, 33)
   DRY( 10, 34)   DRY( 10, 35)   DRY( 10, 36)   DRY( 11, 28)   DRY( 11, 29)
   DRY( 11, 30)   DRY( 11, 31)   DRY( 11, 32)   DRY( 11, 33)

 CELL CONVERSIONS FOR ITER.=  3  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(  7, 25)   DRY(  8, 25)   DRY(  8, 26)   DRY( 10, 27)
0
     5 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD  1
    63 TOTAL ITERATIONS
0MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST INNER ITERATION):
0    HEAD CHANGE  LAYER,ROW,COL    HEAD CHANGE  LAYER,ROW,COL    HEAD CHANGE  LAYER,ROW,COL
  HEAD CHANGE  LAYER,ROW,COL

-----------------------------------------------------------------------------------------------
----------------------------
   1    12.17     (  2, 25, 15)  0   -7.116     (  2, 25, 16)  0    5.433     (  2, 13, 35)
0   -2.661     (  2, 12, 26)
   0   -2.582     (  2, 13, 35)  0    1.045     (  2, 13, 35)  0  -0.8921     (  2, 13, 28)
0   0.8577     (  2, 13, 28)
   0  -0.4261     (  2, 13, 28)  0  -0.1464     (  2, 38, 26)  0  -0.1687     (  2, 13, 23)
```



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0  -0.2282     (  2,  8, 21)
   0  -0.4097     (  2, 13, 24)  0  -0.2852     (  2, 13, 18)  0  -0.1484     (  2, 12, 25)
0  -0.5402E-01 (  2, 24,  7)
   0  -0.4044E-01 (  2, 29, 14)  0  -0.2058E-01 (  2, 38, 12)  0   0.1821E-01 (  2, 13, 35)
0  -0.1643E-01 (  2, 13, 35)
   0  -0.6991E-02 (  2, 38, 26)  0  -0.4374E-02 (  2, 28, 29)  0  -0.3743E-02 (  2, 13, 28)
0   0.4229E-02 (  2, 13, 28)
   0  -0.1244E-02 (  2, 13, 28)  0  -0.5431E-03 (  2, 12, 25)  1  -0.2289     (  2, 13, 28)
0   0.1213     (  2, 13, 28)
   0  -0.5205E-01 (  2, 13, 24)  0  -0.6124E-01 (  2, 12, 26)  0  -0.3515E-01 (  2,  7, 25)
0  -0.2652E-01 (  2, 13, 35)
   0   0.2734E-01 (  2, 13, 35)  0   0.1067E-01 (  2, 38, 26)  0  -0.6047E-02 (  2, 20,  5)
0   0.6727E-02 (  2, 38, 26)
   0   0.3786E-02 (  2, 32, 21)  0   0.2902E-02 (  2, 29, 21)  0   0.2819E-02 (  2, 25, 26)
0   0.3448E-02 (  2, 24, 25)
   0   0.2091E-02 (  2, 17, 10)  0   0.3096E-02 (  2, 12, 25)  0   0.2363E-02 (  2, 21,  8)
0   0.9346E-03 (  2, 19, 10)
   1   0.1351E-01 (  2, 12, 26)  0   0.7928E-02 (  2, 13, 24)  0  -0.1062E-01 (  2, 13, 28)
0   0.9557E-02 (  2, 13, 28)
   0  -0.8360E-02 (  2, 13, 28)  0   0.7629E-02 (  2, 13, 35)  0  -0.5514E-02 (  2, 13, 35)
0   0.5854E-02 (  2, 15, 10)
   0   0.4812E-02 (  2, 15, 10)  0   0.4371E-02 (  2, 13, 28)  0   0.3626E-02 (  2, 13, 28)
0   0.1328E-02 (  2, 31, 19)
   0   0.7968E-03 (  2, 29, 26)  1   0.5063E-02 (  2, 13, 28)  0   0.2325E-02 (  2, 13, 35)
0   0.2540E-02 (  2, 12, 26)
   0   0.1520E-02 (  2, 13, 28)  0   0.9318E-03 (  2,  7, 28)  1   0.6606E-03 (  2, 13, 28)
0
0MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER ITERATION):
0     RESIDUAL    LAYER,ROW,COL     RESIDUAL    LAYER,ROW,COL     RESIDUAL    LAYER,ROW,COL
   RESIDUAL    LAYER,ROW,COL

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----------------------------
   1   0.4247E-01 (  2, 11, 33)  0   0.1587E-01 (  2, 10, 36)  0   0.1122E-01 (  2, 12, 25)
0   0.6211E-02 (  2, 13, 35)
   0   0.4091E-02 (  2, 29, 21)  0   0.2440E-02 (  2, 38, 26)  0  -0.1882E-02 (  2, 22, 17)
0  -0.9827E-03 (  2, 22, 17)
   0  -0.5157E-03 (  2, 20, 10)  0  -0.2814E-03 (  2, 24, 16)  0   0.3125E-03 (  2, 20, 11)
0   0.4333E-03 (  2, 22, 17)
   0   0.6675E-03 (  2, 24, 16)  0   0.5366E-03 (  2, 24, 16)  0  -0.3759E-03 (  2, 12, 25)
0  -0.2067E-03 (  2, 30, 20)
   0  -0.1087E-03 (  2, 30, 20)  0  -0.5117E-04 (  2, 24, 18)  0   0.4317E-04 (  2, 13, 35)
0  -0.2008E-04 (  2, 31, 19)
   0  -0.1406E-04 (  2, 23, 19)  0   0.1220E-04 (  2, 30, 20)  0   0.7957E-05 (  2, 30, 20)
0   0.5414E-05 (  2, 30, 20)
   0   0.2601E-05 (  2, 30, 20)  0  -0.2287E-05 (  2, 12, 25)  1  -0.2179E-03 (  2, 13, 28)
0   0.1629E-03 (  2, 27, 22)
   0   0.1031E-03 (  2, 27, 22)  0   0.6238E-04 (  2, 27, 22)  0   0.3756E-04 (  2, 12, 26)
0  -0.4570E-04 (  2, 13, 35)
   0   0.1779E-04 (  2, 13, 35)  0   0.2343E-04 (  2, 38, 26)  0  -0.1066E-04 (  2, 27, 22)
0  -0.7746E-05 (  2, 26, 23)
   0   0.4218E-05 (  2, 21,  9)  0  -0.2744E-05 (  2, 15, 12)  0  -0.3263E-05 (  2, 20,  9)
0   0.2665E-05 (  2, 26, 25)
   0  -0.6563E-05 (  2, 12, 25)  0   0.3378E-05 (  2, 13, 13)  0   0.1877E-05 (  2, 20,  9)
0  -0.1541E-05 (  2, 13, 35)
   1   0.2156E-04 (  2, 12, 25)  0   0.1391E-04 (  2, 13, 24)  0   0.1560E-04 (  2, 12, 29)
0   0.7813E-05 (  2, 11, 28)
   0  -0.9070E-05 (  2, 13, 35)  0   0.9863E-05 (  2, 13, 35)  0  -0.5177E-05 (  2, 15, 10)
0   0.6043E-05 (  2, 38, 26)
   0  -0.8997E-05 (  2, 38, 26)  0  -0.4316E-05 (  2, 12, 26)  0   0.2736E-05 (  2, 15, 10)
0   0.1472E-05 (  2,  4, 39)
   0   0.8299E-06 (  2,  3, 39)  1  -0.3968E-05 (  2, 13, 24)  0   0.2697E-05 (  2, 13, 35)
0  -0.2208E-05 (  2, 13, 13)
   0  -0.1635E-05 (  2, 13, 13)  0   0.9762E-06 (  2, 15, 10)  1  -0.7886E-06 (  2, 12, 26)
0
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                                 STANLEY FERRY GW BASELINE
 HEAD/DRAWDOWN PRINTOUT FLAG = 1     TOTAL BUDGET PRINTOUT FLAG = 1
 CELL-BY-CELL FLOW TERM FLAG = 1

 OUTPUT FLAGS FOR EACH LAYER:
          HEAD    DRAWDOWN  HEAD  DRAWDOWN
 LAYER  PRINTOUT  PRINTOUT  SAVE    SAVE
 ----------------------------------------
    1       0         0       1       1
    2       0         0       1       1
 UBUDSV SAVING "   CONSTANT HEAD" ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "FLOW RIGHT FACE " ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "FLOW FRONT FACE " ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "FLOW LOWER FACE " ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "   RIVER LEAKAGE" ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "        RECHARGE" ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1

 HEADS AND FLOW TERMS SAVED ON UNIT 32 FOR USE BY MT3D TRANSPORT MODEL

 HEAD WILL BE SAVED ON UNIT  51 AT END OF TIME STEP  1, STRESS PERIOD  1

 DRAWDOWN WILL BE SAVED ON UNIT  52 AT END OF TIME STEP  1, STRESS PERIOD  1
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP  1 IN STRESS PERIOD  1
  ------------------------------------------------------------------------------

      CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP      L**3/T
      ------------------                 ------------------------

            IN:                                      IN:
            ---                                      ---
       CONSTANT HEAD =       8.7089E-03         CONSTANT HEAD =       8.7089E-03
       RIVER LEAKAGE =           0.0000         RIVER LEAKAGE =           0.0000
            RECHARGE =       1.8804E-03              RECHARGE =       1.8804E-03

            TOTAL IN =       1.0589E-02              TOTAL IN =       1.0589E-02

           OUT:                                     OUT:
           ----                                     ----
       CONSTANT HEAD =       2.8421E-04         CONSTANT HEAD =       2.8421E-04
       RIVER LEAKAGE =       1.0300E-02         RIVER LEAKAGE =       1.0300E-02
            RECHARGE =           0.0000              RECHARGE =           0.0000

           TOTAL OUT =       1.0585E-02             TOTAL OUT =       1.0585E-02

            IN - OUT =       4.6481E-06              IN - OUT =       4.6481E-06

 PERCENT DISCREPANCY =           0.04     PERCENT DISCREPANCY =           0.04




          TIME SUMMARY AT END OF TIME STEP  1 IN STRESS PERIOD  1
                     SECONDS     MINUTES      HOURS       DAYS        YEARS
                     ------------------------------------------------------------
   TIME STEP LENGTH  1.0000     1.66667E-02 2.77778E-04 1.15741E-05 3.16881E-08
 STRESS PERIOD TIME  1.0000     1.66667E-02 2.77778E-04 1.15741E-05 3.16881E-08
         TOTAL TIME  1.0000     1.66667E-02 2.77778E-04 1.15741E-05 3.16881E-08
1
```

```
 LISTING FILE: output.dat
                         UNIT   3

 OPENING bas.dat
 FILE TYPE:BAS   UNIT   1

 OPENING bcf.dat
 FILE TYPE:BCF   UNIT  11

 OPENING oc.dat
 FILE TYPE:OC   UNIT  22

 OPENING riv.dat
 FILE TYPE:RIV   UNIT  14

 OPENING rch.dat
 FILE TYPE:RCH   UNIT  18

 OPENING pcg2.dat
 FILE TYPE:PCG   UNIT  23

 OPENING budget.dat
 FILE TYPE:DATA(BINARY)   UNIT  50

 OPENING heads.dat
 FILE TYPE:DATA(BINARY)   UNIT  51

 OPENING ddown.dat
 FILE TYPE:DATA(BINARY)   UNIT  52

 OPENING mt3d.flo
 FILE TYPE:DATA(BINARY)   UNIT  32
1                                MODFLOW
      U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW MODEL



 THE FREE FORMAT OPTION HAS BEEN SELECTED
    2 LAYERS        46 ROWS        40 COLUMNS
   1 STRESS PERIOD(S) IN SIMULATION
 MODEL TIME UNIT IS SECONDS

 BAS5 -- BASIC MODEL PACKAGE, VERSION 5, 1/1/95 INPUT READ FROM UNIT  1
 ARRAYS RHS AND BUFF WILL HAVE SEPARATE MEMORY ALLOCATIONS
 INITIAL HEAD WILL BE KEPT THROUGHOUT THE SIMULATION
      38734 ELEMENTS IN X ARRAY ARE USED BY BAS
      38734 ELEMENTS OF X ARRAY USED OUT OF  999999990

 BCF5 -- BLOCK-CENTERED FLOW PACKAGE, VERSION 5, 9/1/93 INPUT READ FROM UNIT 11
 STEADY-STATE SIMULATION
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 50
 HEAD AT CELLS THAT CONVERT TO DRY= -0.10000E+31
 WETTING CAPABILITY IS NOT ACTIVE
      LAYER  LAYER-TYPE CODE     INTERBLOCK T
      ---------------------------------------------
         1            3          0 -- HARMONIC
         2            3          0 -- HARMONIC
      11042 ELEMENTS IN X ARRAY ARE USED BY BCF
      49776 ELEMENTS OF X ARRAY USED OUT OF  999999990

 RIV5 -- RIVER PACKAGE, VERSION 5, 9/1/93 INPUT READ FROM UNIT 14
 MAXIMUM OF 2116 RIVER REACHES
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 50
      12696 ELEMENTS IN X ARRAY ARE USED BY RIV
      62472 ELEMENTS OF X ARRAY USED OUT OF  999999990
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 RCH5 -- RECHARGE PACKAGE, VERSION 5, 6/1/95 INPUT READ FROM UNIT 18
 OPTION 3 -- RECHARGE TO HIGHEST ACTIVE NODE IN EACH VERTICAL COLUMN
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 50
       3680 ELEMENTS IN X ARRAY ARE USED BY RCH
      66152 ELEMENTS OF X ARRAY USED OUT OF  999999990
0PCG2 -- CONJUGATE GRADIENT SOLUTION PACKAGE, VERSION 2.1, 6/1/95
 MAXIMUM OF  50 CALLS OF SOLUTION ROUTINE
 MAXIMUM OF  30 INTERNAL ITERATIONS PER CALL TO SOLUTION ROUTINE
 MATRIX PRECONDITIONING TYPE :    1
   28220 ELEMENTS IN X ARRAY ARE USED BY PCG
   94372 ELEMENTS OF X ARRAY USED OUT OF*******
1




                      BOUNDARY ARRAY FOR LAYER   1
 READING ON UNIT   1 WITH FORMAT: (15I3)



                      BOUNDARY ARRAY FOR LAYER   2
 READING ON UNIT   1 WITH FORMAT: (15I3)

 AQUIFER HEAD WILL BE SET TO -999.99     AT ALL NO-FLOW NODES (IBOUND=0).



                        INITIAL HEAD FOR LAYER   1
 READING ON UNIT   1 WITH FORMAT: (15G14.0)



                        INITIAL HEAD FOR LAYER   2
 READING ON UNIT   1 WITH FORMAT: (15G14.0)

 OUTPUT CONTROL IS SPECIFIED EVERY TIME STEP
 HEAD PRINT FORMAT CODE IS   0    DRAWDOWN PRINT FORMAT CODE IS   0
 HEADS WILL BE SAVED ON UNIT  51    DRAWDOWNS WILL BE SAVED ON UNIT  52



           COLUMN TO ROW ANISOTROPY
 READING ON UNIT  11 WITH FORMAT: (2G14.0)



                               DELR
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                               DELC
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



              HYD. COND. ALONG ROWS FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                              BOTTOM FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)
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          VERT HYD COND /THICKNESS FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                              TOP FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



             HYD. COND. ALONG ROWS FOR LAYER   2
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                            BOTTOM FOR LAYER   2
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                              TOP FOR LAYER   2
 READING ON UNIT  11 WITH FORMAT: (15G14.0)
0


                                                        SOLUTION BY THE CONJUGATE-GRADIENT
METHOD

-----------------------------------------
0                                   MAXIMUM NUMBER OF CALLS TO PCG ROUTINE =       50
                                        MAXIMUM ITERATIONS PER CALL TO PCG =       30
                                               MATRIX PRECONDITIONING TYPE =        1
                            RELAXATION FACTOR (ONLY USED WITH PRECOND. TYPE 1) =
0.99000E+00
                    PARAMETER OF POLYMOMIAL PRECOND. = 2 (2) OR IS CALCULATED :        2
                                         HEAD CHANGE CRITERION FOR CLOSURE =
0.10000E-02
                                      RESIDUAL CHANGE CRITERION FOR CLOSURE =
0.10000E-02
                              PCG HEAD AND RESIDUAL CHANGE PRINTOUT INTERVAL =        1
                         PRINTING FROM SOLVER IS LIMITED(1) OR SUPPRESSED (>1) =        0
                                                          DAMPING PARAMETER =
0.10000E+01
1
                           STRESS PERIOD NO.   1, LENGTH =   1.000000
                           -------------------------------------------

                             NUMBER OF TIME STEPS =     1

                              MULTIPLIER FOR DELT =     1.000

                           INITIAL TIME STEP SIZE =   1.000000


   116 RIVER REACHES

 LAYER   ROW   COL     STAGE   CONDUCTANCE   BOT. ELEV.  REACH NO.
 ---------------------------------------------------------------
    2     45    35   0.5000      0.4098E-05   14.76           1
    2     45    34   0.5000      0.9457E-05   14.74           2
    2     44    34   0.5000      0.9297E-05   14.71           3
    2     44    34   0.5000      0.4147E-05   14.69           4
    2     43    34   0.5000      0.1320E-04   14.66           5
    2     42    34   0.5000      0.6995E-05   14.63           6
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    2     41    34   0.5000      0.8645E-05   14.57           7
    2     40    34   0.5000      0.1318E-04   14.54           8
    2     39    33   0.5000      0.5622E-05   14.47           9
    2     38    33   0.5000      0.9719E-05   14.44          10
    2     38    32   0.5000      0.1184E-04   14.40          11
    2     37    32   0.5000      0.3496E-05   14.37          12
    2     37    31   0.5000      0.1534E-04   14.33          13
    2     37    30   0.5000      0.2727E-05   14.30          14
    2     36    30   0.5000      0.1261E-04   14.27          15
    2     35    29   0.5000      0.1534E-04   14.22          16
    2     35    28   0.5000      0.4391E-05   14.18          17
    2     34    28   0.5000      0.1095E-04   14.15          18
    2     34    27   0.5000      0.1061E-04   14.11          19
    2     33    27   0.5000      0.4727E-05   14.08          20
    2     33    26   0.5000      0.7670E-05   14.05          21
    2     33    25   0.5000      0.7670E-05   14.02          22
    2     33    24   0.5000      0.1650E-05   14.00          23
    2     32    24   0.5000      0.5507E-05   14.00          24
    2     32    23   0.5000      0.8052E-05   14.00          25
    2     31    22   0.5000      0.5980E-05   14.00          26
    2     31    21   0.5000      0.7637E-05   14.00          27
    2     30    20   0.5000      0.7245E-05   14.00          28
    2     30    19   0.5000      0.2990E-05   14.00          29
    2     29    19   0.5000      0.4903E-05   14.00          30
    2     29    18   0.5000      0.5971E-05   14.00          31
    2     28    18   0.5000      0.1614E-05   14.00          32
    2     28    17   0.5000      0.6630E-05   13.99          33
    2     28    16   0.5000      0.6630E-05   13.97          34
    2     28    15   0.5000      0.2697E-05   13.95          35
    2     27    15   0.5000      0.3933E-05   13.94          36
    2     27    14   0.5000      0.6630E-05   13.93          37
    2     27    13   0.5000      0.6382E-05   13.91          38
    2     26    13   0.5000      0.3066E-05   13.90          39
    2     26    12   0.5000      0.3449E-05   13.90          40
    2     25    12   0.5000      0.6515E-05   13.90          41
    2     24    12   0.5000      0.3257E-05   13.90          42
    2     24    12   0.5000      0.4908E-05   13.90          43
    2     23    13   0.5000      0.8038E-05   13.90          44
    2     23    14   0.5000      0.1573E-05   13.90          45
    2     23    14   0.5000      0.5213E-05   13.89          46
    2     23    15   0.5000      0.6468E-05   13.88          47
    2     23    16   0.5000      0.6468E-05   13.86          48
    2     23    17   0.5000      0.6468E-05   13.84          49
    2     24    18   0.5000      0.6468E-05   13.83          50
    2     24    19   0.5000      0.6692E-05   13.81          51
    2     24    20   0.5000      0.6457E-05   13.80          52
    2     24    21   0.5000      0.4481E-05   13.80          53
    2     23    21   0.5000      0.3963E-05   13.79          54
    2     23    22   0.5000      0.3027E-05   13.77          55
    2     22    22   0.5000      0.7320E-05   13.74          56
    2     21    22   0.5000      0.1661E-05   13.72          57
    2     21    23   0.5000      0.5658E-05   13.70          58
    2     20    23   0.5000      0.7320E-05   13.66          59
    2     19    24   0.5000      0.7520E-05   13.62          60
    2     18    24   0.5000      0.8744E-05   13.60          61
    2     17    23   0.5000      0.6967E-05   13.56          62
    2     17    22   0.5000      0.4394E-05   13.52          63
    2     16    22   0.5000      0.2573E-05   13.49          64
    2     16    21   0.5000      0.6967E-05   13.45          65
    2     16    20   0.5000      0.4609E-05   13.40          66
    2     15    20   0.5000      0.2357E-05   13.37          67
    2     15    19   0.5000      0.6967E-05   13.33          68
    2     15    18   0.5000      0.4825E-05   13.28          69
    2     14    18   0.5000      0.2142E-05   13.25          70
    2     14    17   0.5000      0.6967E-05   13.22          71
    2     14    16   0.5000      0.5040E-05   13.17          72
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2	13	16	0.5000	0.1927E-05	13.14	73
2	13	15	0.5000	0.6967E-05	13.10	74
2	13	14	0.5000	0.5255E-05	13.05	75
2	12	14	0.5000	0.1712E-05	13.02	76
2	12	13	0.5000	0.1903E-05	13.01	77
2	12	13	0.5000	0.7785E-05	13.00	78
2	12	13	0.5000	0.2152E-05	12.99	79
2	12	14	0.5000	0.2971E-05	12.98	80
2	11	14	0.5000	0.4907E-05	12.96	81
2	11	15	0.5000	0.7878E-05	12.93	82
2	11	16	0.5000	0.7878E-05	12.89	83
2	10	17	0.5000	0.7878E-05	12.85	84
2	10	18	0.5000	0.7878E-05	12.81	85
2	10	19	0.5000	0.4654E-05	12.78	86
2	9	19	0.5000	0.3224E-05	12.76	87
2	9	20	0.5000	0.7878E-05	12.73	88
2	9	21	0.5000	0.7878E-05	12.69	89
2	9	22	0.5000	0.1557E-05	12.67	90
2	8	22	0.5000	0.6321E-05	12.65	91
2	8	23	0.5000	0.6086E-05	12.62	92
2	8	23	0.5000	0.1503E-05	12.60	93
2	8	24	0.5000	0.6610E-05	12.57	94
2	8	25	0.5000	0.6610E-05	12.53	95
2	8	26	0.5000	0.8484E-05	12.48	96
2	9	27	0.5000	0.8192E-05	12.43	97
2	9	27	0.5000	0.2982E-05	12.39	98
2	9	28	0.5000	0.1250E-04	12.34	99
2	9	29	0.5000	0.1372E-04	12.25	100
2	9	30	0.5000	0.1226E-04	12.16	101
2	9	31	0.5000	0.1359E-04	12.07	102
2	10	32	0.5000	0.2721E-05	12.01	103
2	10	32	0.5000	0.1013E-04	11.98	104
2	9	33	0.5000	0.1267E-04	11.92	105
2	9	34	0.5000	0.1267E-04	11.86	106
2	9	35	0.5000	0.6459E-05	11.82	107
2	9	35	0.5000	0.8008E-05	11.78	108
2	9	36	0.5000	0.2931E-05	11.75	109
2	8	36	0.5000	0.1341E-04	11.70	110
2	8	37	0.5000	0.6000E-05	11.65	111
2	7	37	0.5000	0.5916E-05	11.62	112
2	7	37	0.5000	0.6557E-05	11.58	113
2	8	38	0.5000	0.1296E-04	11.53	114
2	8	39	0.5000	0.8549E-05	11.47	115
2	9	39	0.5000	0.6811E-05	11.43	116

RECHARGE

READING ON UNIT 18 WITH FORMAT: (15G14.0)

CELL CONVERSIONS FOR ITER.= 1 LAYER= 1 STEP= 1 PERIOD= 1 (ROW,COL)

DRY(2, 40)	DRY(3, 40)	DRY(4, 40)	DRY(5, 40)	DRY(6, 40)
DRY(7, 23)	DRY(7, 24)	DRY(7, 40)	DRY(8, 20)	DRY(8, 21)
DRY(8, 22)	DRY(8, 23)	DRY(8, 24)	DRY(8, 40)	DRY(9, 18)
DRY(9, 19)	DRY(9, 20)	DRY(9, 21)	DRY(9, 22)	DRY(9, 23)
DRY(9, 24)	DRY(9, 25)	DRY(9, 26)	DRY(9, 40)	DRY(10, 16)
DRY(10, 17)	DRY(10, 18)	DRY(10, 19)	DRY(10, 20)	DRY(10, 21)
DRY(10, 22)	DRY(10, 23)	DRY(10, 24)	DRY(10, 25)	DRY(10, 26)
DRY(11, 14)	DRY(11, 15)	DRY(11, 16)	DRY(11, 17)	DRY(11, 18)
DRY(11, 19)	DRY(11, 20)	DRY(11, 21)	DRY(11, 22)	DRY(11, 23)
DRY(11, 24)	DRY(11, 25)	DRY(11, 26)	DRY(11, 27)	DRY(12, 13)
DRY(12, 14)	DRY(12, 15)	DRY(12, 16)	DRY(12, 17)	DRY(12, 18)
DRY(12, 19)	DRY(12, 20)	DRY(12, 21)	DRY(12, 22)	DRY(12, 23)
DRY(12, 24)	DRY(12, 25)	DRY(12, 26)	DRY(12, 27)	DRY(13, 13)
DRY(13, 14)	DRY(13, 15)	DRY(13, 16)	DRY(13, 17)	DRY(13, 18)
DRY(13, 19)	DRY(13, 20)	DRY(13, 21)	DRY(13, 22)	DRY(13, 23)

DRY(13, 24)	DRY(13, 25)	DRY(14, 12)	DRY(14, 13)	DRY(14, 14)
DRY(14, 15)	DRY(14, 16)	DRY(14, 17)	DRY(14, 18)	DRY(14, 19)
DRY(14, 20)	DRY(14, 21)	DRY(14, 22)	DRY(14, 23)	DRY(14, 24)
DRY(15, 12)	DRY(15, 13)	DRY(15, 14)	DRY(15, 15)	DRY(15, 16)
DRY(15, 17)	DRY(15, 18)	DRY(15, 19)	DRY(15, 20)	DRY(15, 21)
DRY(15, 22)	DRY(15, 23)	DRY(15, 24)	DRY(16, 12)	DRY(16, 13)
DRY(16, 14)	DRY(16, 15)	DRY(16, 16)	DRY(16, 17)	DRY(16, 18)
DRY(16, 19)	DRY(16, 20)	DRY(16, 21)	DRY(16, 22)	DRY(16, 23)
DRY(16, 24)	DRY(16, 25)	DRY(17, 11)	DRY(17, 12)	DRY(17, 13)
DRY(17, 14)	DRY(17, 15)	DRY(17, 16)	DRY(17, 17)	DRY(17, 18)
DRY(17, 19)	DRY(17, 20)	DRY(17, 21)	DRY(17, 22)	DRY(17, 23)
DRY(17, 24)	DRY(17, 25)	DRY(18, 11)	DRY(18, 12)	DRY(18, 13)
DRY(18, 14)	DRY(18, 15)	DRY(18, 16)	DRY(18, 17)	DRY(18, 18)
DRY(18, 19)	DRY(18, 20)	DRY(18, 21)	DRY(18, 22)	DRY(18, 23)
DRY(18, 24)	DRY(18, 25)	DRY(19, 11)	DRY(19, 12)	DRY(19, 13)
DRY(19, 14)	DRY(19, 15)	DRY(19, 16)	DRY(19, 17)	DRY(19, 18)
DRY(19, 19)	DRY(19, 20)	DRY(19, 21)	DRY(19, 22)	DRY(19, 23)
DRY(19, 24)	DRY(20, 12)	DRY(20, 13)	DRY(20, 14)	DRY(20, 15)
DRY(20, 16)	DRY(20, 17)	DRY(20, 18)	DRY(20, 19)	DRY(20, 20)
DRY(20, 21)	DRY(20, 22)	DRY(20, 23)	DRY(20, 24)	DRY(21, 11)
DRY(21, 12)	DRY(21, 13)	DRY(21, 14)	DRY(21, 15)	DRY(21, 16)
DRY(21, 17)	DRY(21, 18)	DRY(21, 19)	DRY(21, 20)	DRY(21, 21)
DRY(21, 22)	DRY(21, 23)	DRY(21, 24)	DRY(22, 11)	DRY(22, 12)
DRY(22, 13)	DRY(22, 14)	DRY(22, 15)	DRY(22, 16)	DRY(22, 17)
DRY(22, 18)	DRY(22, 19)	DRY(22, 20)	DRY(22, 21)	DRY(22, 22)
DRY(22, 23)	DRY(22, 24)	DRY(23, 10)	DRY(23, 11)	DRY(23, 12)
DRY(23, 13)	DRY(23, 14)	DRY(23, 15)	DRY(23, 16)	DRY(23, 17)
DRY(23, 18)	DRY(23, 19)	DRY(23, 20)	DRY(23, 21)	DRY(23, 22)
DRY(23, 23)	DRY(23, 24)	DRY(24, 10)	DRY(24, 11)	DRY(24, 12)
DRY(24, 13)	DRY(24, 14)	DRY(24, 15)	DRY(24, 16)	DRY(24, 17)
DRY(24, 18)	DRY(24, 19)	DRY(24, 20)	DRY(24, 21)	DRY(24, 22)
DRY(24, 23)	DRY(24, 24)	DRY(24, 25)	DRY(25, 10)	DRY(25, 11)
DRY(25, 12)	DRY(25, 13)	DRY(25, 14)	DRY(25, 15)	DRY(25, 16)
DRY(25, 17)	DRY(25, 18)	DRY(25, 19)	DRY(25, 20)	DRY(25, 21)
DRY(25, 22)	DRY(25, 23)	DRY(25, 24)	DRY(25, 27)	DRY(26, 11)
DRY(26, 12)	DRY(26, 13)	DRY(26, 14)	DRY(26, 15)	DRY(26, 16)
DRY(26, 17)	DRY(26, 18)	DRY(26, 19)	DRY(26, 20)	DRY(26, 21)
DRY(26, 22)	DRY(26, 23)	DRY(26, 24)	DRY(26, 25)	DRY(26, 26)
DRY(26, 27)	DRY(27, 11)	DRY(27, 12)	DRY(27, 13)	DRY(27, 14)
DRY(27, 15)	DRY(27, 16)	DRY(27, 17)	DRY(27, 18)	DRY(27, 19)
DRY(27, 20)	DRY(27, 21)	DRY(27, 22)	DRY(27, 23)	DRY(27, 24)
DRY(27, 25)	DRY(27, 26)	DRY(27, 27)	DRY(27, 28)	DRY(28, 11)
DRY(28, 12)	DRY(28, 13)	DRY(28, 14)	DRY(28, 15)	DRY(28, 16)
DRY(28, 17)	DRY(28, 18)	DRY(28, 19)	DRY(28, 20)	DRY(28, 21)
DRY(28, 22)	DRY(28, 23)	DRY(28, 24)	DRY(28, 25)	DRY(28, 26)
DRY(28, 27)	DRY(28, 28)	DRY(29, 11)	DRY(29, 12)	DRY(29, 13)
DRY(29, 14)	DRY(29, 15)	DRY(29, 16)	DRY(29, 17)	DRY(29, 18)
DRY(29, 19)	DRY(29, 20)	DRY(29, 21)	DRY(29, 22)	DRY(29, 23)
DRY(29, 24)	DRY(29, 25)	DRY(29, 26)	DRY(29, 27)	DRY(29, 28)
DRY(29, 29)	DRY(30, 10)	DRY(30, 11)	DRY(30, 12)	DRY(30, 13)
DRY(30, 14)	DRY(30, 15)	DRY(30, 16)	DRY(30, 17)	DRY(30, 18)
DRY(30, 19)	DRY(30, 20)	DRY(30, 21)	DRY(30, 22)	DRY(30, 23)
DRY(30, 24)	DRY(30, 25)	DRY(30, 26)	DRY(30, 27)	DRY(30, 28)
DRY(30, 29)	DRY(31, 10)	DRY(31, 11)	DRY(31, 12)	DRY(31, 13)
DRY(31, 14)	DRY(31, 15)	DRY(31, 16)	DRY(31, 17)	DRY(31, 18)
DRY(31, 19)	DRY(31, 20)	DRY(31, 21)	DRY(31, 22)	DRY(31, 23)
DRY(31, 24)	DRY(31, 25)	DRY(31, 26)	DRY(31, 27)	DRY(31, 28)
DRY(31, 29)	DRY(31, 30)	DRY(32, 10)	DRY(32, 11)	DRY(32, 12)
DRY(32, 13)	DRY(32, 14)	DRY(32, 15)	DRY(32, 16)	DRY(32, 17)
DRY(32, 18)	DRY(32, 19)	DRY(32, 20)	DRY(32, 21)	DRY(32, 22)
DRY(32, 23)	DRY(32, 24)	DRY(32, 25)	DRY(32, 26)	DRY(32, 27)
DRY(32, 28)	DRY(32, 29)	DRY(32, 30)	DRY(33, 10)	DRY(33, 11)
DRY(33, 12)	DRY(33, 13)	DRY(33, 14)	DRY(33, 15)	DRY(33, 16)
DRY(33, 17)	DRY(33, 18)	DRY(33, 19)	DRY(33, 20)	DRY(33, 21)
DRY(33, 22)	DRY(33, 23)	DRY(33, 24)	DRY(33, 25)	DRY(33, 26)
DRY(33, 27)	DRY(33, 28)	DRY(33, 29)	DRY(33, 30)	DRY(34, 15)

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   DRY( 34, 16)   DRY( 34, 17)   DRY( 34, 18)   DRY( 34, 19)   DRY( 34, 20)
   DRY( 34, 21)   DRY( 34, 22)   DRY( 34, 23)   DRY( 34, 24)   DRY( 34, 25)
   DRY( 34, 26)   DRY( 34, 27)   DRY( 34, 28)   DRY( 34, 29)   DRY( 34, 30)
   DRY( 35, 16)   DRY( 35, 17)   DRY( 35, 18)   DRY( 35, 19)   DRY( 35, 20)
   DRY( 35, 21)   DRY( 35, 22)   DRY( 35, 23)   DRY( 35, 24)   DRY( 35, 25)
   DRY( 35, 26)   DRY( 35, 27)   DRY( 35, 28)   DRY( 35, 29)   DRY( 35, 30)
   DRY( 35, 31)   DRY( 36, 16)   DRY( 36, 17)   DRY( 36, 18)   DRY( 36, 19)
   DRY( 36, 20)   DRY( 36, 21)   DRY( 36, 22)   DRY( 36, 23)   DRY( 36, 24)
   DRY( 36, 25)   DRY( 36, 26)   DRY( 36, 27)   DRY( 36, 28)   DRY( 36, 29)
   DRY( 36, 30)   DRY( 36, 31)   DRY( 36, 32)   DRY( 37, 19)   DRY( 37, 20)
   DRY( 37, 21)   DRY( 37, 22)   DRY( 37, 23)   DRY( 37, 24)   DRY( 37, 25)
   DRY( 37, 26)   DRY( 37, 27)   DRY( 37, 28)   DRY( 37, 29)   DRY( 37, 30)
   DRY( 37, 31)   DRY( 37, 32)   DRY( 38, 21)   DRY( 38, 22)   DRY( 38, 23)
   DRY( 38, 24)   DRY( 38, 25)   DRY( 38, 26)   DRY( 38, 27)   DRY( 38, 28)
   DRY( 38, 29)   DRY( 38, 30)   DRY( 38, 31)   DRY( 38, 32)   DRY( 38, 33)
   DRY( 39, 19)   DRY( 39, 20)   DRY( 39, 21)   DRY( 39, 22)   DRY( 39, 23)
   DRY( 39, 24)   DRY( 39, 25)   DRY( 39, 26)   DRY( 39, 27)   DRY( 39, 28)
   DRY( 39, 29)   DRY( 39, 30)   DRY( 39, 31)   DRY( 39, 32)   DRY( 39, 33)
   DRY( 40, 17)   DRY( 40, 18)   DRY( 40, 19)   DRY( 40, 20)   DRY( 40, 21)
   DRY( 40, 22)   DRY( 40, 23)   DRY( 40, 24)   DRY( 40, 25)   DRY( 40, 26)
   DRY( 40, 27)   DRY( 40, 28)   DRY( 40, 29)   DRY( 40, 30)   DRY( 40, 31)
   DRY( 40, 32)   DRY( 40, 33)   DRY( 40, 34)   DRY( 41, 23)   DRY( 41, 24)
   DRY( 41, 25)   DRY( 41, 26)   DRY( 41, 27)   DRY( 41, 28)   DRY( 41, 29)
   DRY( 41, 30)   DRY( 41, 31)   DRY( 41, 32)   DRY( 41, 33)   DRY( 41, 34)
   DRY( 42, 23)   DRY( 42, 24)   DRY( 42, 25)   DRY( 42, 26)   DRY( 42, 27)
   DRY( 42, 28)   DRY( 42, 29)   DRY( 42, 30)   DRY( 42, 31)   DRY( 42, 32)
   DRY( 42, 33)   DRY( 42, 34)   DRY( 43, 26)   DRY( 43, 27)   DRY( 43, 28)
   DRY( 43, 29)   DRY( 43, 30)   DRY( 43, 31)   DRY( 43, 32)   DRY( 43, 33)
   DRY( 43, 34)   DRY( 44, 27)   DRY( 44, 28)   DRY( 44, 29)   DRY( 44, 30)
   DRY( 44, 31)   DRY( 44, 32)   DRY( 44, 33)   DRY( 44, 34)   DRY( 44, 35)
   DRY( 45, 28)   DRY( 45, 29)   DRY( 45, 30)   DRY( 45, 31)   DRY( 45, 32)
   DRY( 45, 33)   DRY( 45, 34)   DRY( 45, 35)   DRY( 46, 28)   DRY( 46, 29)
   DRY( 46, 30)   DRY( 46, 31)   DRY( 46, 32)   DRY( 46, 33)   DRY( 46, 34)
   DRY( 46, 35)

 CELL CONVERSIONS FOR ITER.=  2  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(  3, 39)   DRY(  4, 36)   DRY(  4, 37)   DRY(  4, 38)   DRY(  4, 39)
   DRY(  5, 32)   DRY(  5, 33)   DRY(  5, 34)   DRY(  5, 35)   DRY(  5, 36)
   DRY(  5, 37)   DRY(  5, 38)   DRY(  5, 39)   DRY(  6, 29)   DRY(  6, 30)
   DRY(  6, 31)   DRY(  6, 32)   DRY(  6, 33)   DRY(  6, 34)   DRY(  6, 35)
   DRY(  6, 36)   DRY(  6, 37)   DRY(  6, 38)   DRY(  6, 39)   DRY(  7, 25)
   DRY(  7, 26)   DRY(  7, 27)   DRY(  7, 28)   DRY(  7, 29)   DRY(  7, 30)
   DRY(  7, 31)   DRY(  7, 32)   DRY(  7, 33)   DRY(  7, 34)   DRY(  7, 35)
   DRY(  7, 36)   DRY(  7, 37)   DRY(  7, 38)   DRY(  7, 39)   DRY(  8, 25)
   DRY(  8, 26)   DRY(  8, 27)   DRY(  8, 28)   DRY(  8, 29)   DRY(  8, 30)
   DRY(  8, 31)   DRY(  8, 32)   DRY(  8, 33)   DRY(  8, 34)   DRY(  8, 35)
   DRY(  8, 36)   DRY(  8, 37)   DRY(  8, 38)   DRY(  8, 39)   DRY(  9, 27)
   DRY(  9, 28)   DRY(  9, 29)   DRY(  9, 30)   DRY(  9, 31)   DRY(  9, 32)
   DRY(  9, 33)   DRY(  9, 34)   DRY(  9, 35)   DRY(  9, 36)   DRY(  9, 37)
   DRY(  9, 38)   DRY(  9, 39)   DRY( 10, 27)   DRY( 10, 28)   DRY( 10, 29)
   DRY( 10, 30)   DRY( 10, 31)   DRY( 10, 32)   DRY( 10, 33)   DRY( 10, 34)
   DRY( 10, 35)   DRY( 10, 36)   DRY( 11, 28)   DRY( 11, 29)   DRY( 11, 30)
   DRY( 11, 31)   DRY( 11, 32)   DRY( 11, 33)
0
     7 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD  1
    83 TOTAL ITERATIONS
0MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST INNER ITERATION):
0    HEAD CHANGE  LAYER,ROW,COL    HEAD CHANGE  LAYER,ROW,COL    HEAD CHANGE  LAYER,ROW,COL
  HEAD CHANGE  LAYER,ROW,COL

-----------------------------------------------------------------------------------------
----------------------------
   1   -6.836     (  2,  6, 39)  0   -6.783     (  2, 13, 35)  0    3.272     (  2, 13, 35)
0   -2.439     (  2, 12, 25)
   0   -2.286     (  2, 13, 35)  0  -0.6166     (  2, 38, 26)  0   -1.041     (  2, 13, 28)
0   0.8188     (  2, 13, 28)
```



```
   0  -0.3686     (  2, 13, 28)  0  -0.2756     (  2,  7, 24)  0  -0.2236     (  2, 13, 24)
0  -0.1750     (  2, 15, 11)
   0  -0.9456E-01 (  2, 13, 24)  0  -0.3981E-01 (  2, 12, 36)  0  -0.1453E-01 (  2, 14, 34)
0   0.8314E-02 (  2, 12, 25)
   0  -0.7673E-02 (  2, 12, 26)  0   0.4343E-02 (  2, 37, 14)  0  -0.4281E-02 (  2, 13, 35)
0   0.3914E-02 (  2, 13, 35)
   0   0.1529E-02 (  2, 38, 20)  0   0.1316E-02 (  2, 13, 28)  0  -0.1320E-02 (  2, 13, 28)
0   0.2971E-03 (  2, 33, 31)
   1   0.6618     (  2, 38, 26)  0   0.3260     (  2, 37, 27)  0   0.2187     (  2, 38, 26)
0  -0.2209     (  2, 12, 25)
   0  -0.1356     (  2, 13, 28)  0   0.1608     (  2, 13, 28)  0  -0.6797E-01 (  2, 18, 10)
0   0.5212E-01 (  2, 13, 35)
   0  -0.3239E-01 (  2, 20,  5)  0  -0.1872E-01 (  2, 19,  9)  0  -0.1094E-01 (  2, 15, 13)
0  -0.7396E-02 (  2, 13, 24)
   0  -0.4853E-02 (  2, 13, 17)  0  -0.2554E-02 (  2, 15, 16)  0  -0.2389E-02 (  2,  8, 21)
0  -0.1554E-02 (  2, 12, 25)
   0  -0.9541E-03 (  2, 13, 17)  1  -0.1231     (  2, 37, 13)  0  -0.1227     (  2, 12, 25)
0   0.6874E-01 (  2, 12, 26)
   0   0.3504E-01 (  2, 13, 35)  0  -0.4171E-01 (  2, 13, 35)  0  -0.1652E-01 (  2,  7, 24)
0  -0.2177E-01 (  2, 13, 28)
   0   0.1596E-01 (  2, 13, 28)  0  -0.6188E-02 (  2, 15, 12)  0  -0.3657E-02 (  2, 38, 26)
0  -0.2525E-02 (  2, 19, 10)
   0  -0.2319E-02 (  2, 15, 13)  0  -0.1568E-02 (  2, 11, 17)  0  -0.1101E-02 (  2, 14, 16)
0  -0.5428E-03 (  2, 12, 25)
   1  -0.5487E-01 (  2, 17, 23)  0  -0.3011E-01 (  2, 12, 25)  0   0.2464E-01 (  2, 12, 26)
0  -0.1775E-01 (  2, 38, 26)
   0  -0.1099E-01 (  2, 13, 28)  0   0.1237E-01 (  2, 13, 28)  0  -0.8102E-02 (  2, 13, 28)
0  -0.4612E-02 (  2, 13, 24)
   0  -0.2434E-02 (  2, 13, 35)  0   0.2115E-02 (  2, 13, 35)  0  -0.1362E-02 (  2, 13, 23)
0  -0.8971E-03 (  2, 15, 17)
   1  -0.1563E-01 (  2, 17, 23)  0  -0.6594E-02 (  2,  9, 19)  0   0.7508E-02 (  2, 12, 26)
0  -0.4370E-02 (  2, 12, 25)
   0  -0.4988E-02 (  2, 13, 28)  0   0.4551E-02 (  2, 13, 28)  0  -0.2026E-02 (  2, 13, 28)
0   0.1456E-02 (  2, 13, 35)
   0  -0.9615E-03 (  2, 13, 24)  1  -0.4574E-02 (  2, 16, 22)  0  -0.1743E-02 (  2, 13, 35)
0   0.1122E-02 (  2, 12, 26)
   0  -0.1125E-02 (  2, 12, 25)  0  -0.6485E-03 (  2, 13, 35)  1  -0.7926E-03 (  2, 12, 25)
0
0MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER ITERATION):
0     RESIDUAL    LAYER,ROW,COL     RESIDUAL    LAYER,ROW,COL     RESIDUAL    LAYER,ROW,COL
   RESIDUAL    LAYER,ROW,COL

-----------------------------------------------------------------------------------------
----------------------------
   1   0.2723E-01 (  2, 20, 12)  0  -0.1626E-01 (  2, 13, 35)  0   0.8142E-02 (  2, 20, 12)
0   0.8095E-02 (  2, 13, 35)
   0   0.3746E-02 (  2, 21, 10)  0  -0.2523E-02 (  2, 23, 24)  0  -0.1779E-02 (  2, 23, 24)
0  -0.1184E-02 (  2, 23, 24)
   0  -0.6171E-03 (  2, 38, 26)  0   0.5990E-03 (  2, 38, 26)  0  -0.4899E-03 (  2,  4, 38)
0   0.3190E-03 (  2, 23, 24)
   0   0.1947E-03 (  2, 24, 16)  0   0.1033E-03 (  2, 23, 24)  0   0.5074E-04 (  2, 23, 24)
0   0.3818E-04 (  2, 12, 25)
   0   0.1849E-04 (  2, 23, 23)  0  -0.8334E-05 (  2, 24, 16)  0  -0.1425E-04 (  2, 13, 35)
0  -0.6909E-05 (  2, 23, 24)
   0  -0.5366E-05 (  2, 23, 24)  0  -0.3376E-05 (  2, 23, 24)  0  -0.2228E-05 (  2, 23, 24)
0  -0.8136E-06 (  2, 23, 24)
   1   0.7072E-03 (  2, 38, 26)  0  -0.5755E-03 (  2, 38, 26)  0  -0.3011E-03 (  2, 44, 16)
0  -0.2725E-03 (  2, 45, 17)
   0  -0.1781E-03 (  2, 13, 28)  0   0.1606E-03 (  2, 45, 18)  0   0.1267E-03 (  2, 45, 18)
0   0.1026E-03 (  2, 45, 18)
   0  -0.3569E-04 (  2, 29, 20)  0  -0.1707E-04 (  2, 45, 19)  0   0.1106E-04 (  2, 45, 24)
0   0.7784E-05 (  2, 45, 23)
   0  -0.3476E-05 (  2, 44, 21)  0  -0.3172E-05 (  2, 45, 25)  0  -0.1843E-05 (  2, 40, 25)
0  -0.1457E-05 (  2, 12, 25)
   0   0.8902E-06 (  2, 29, 20)  1   0.1438E-03 (  2, 37, 27)  0  -0.1088E-03 (  2, 12, 25)
0   0.8766E-04 (  2, 44, 16)
```

```
   0   0.9414E-04 (  2, 13, 35)  0  -0.4333E-04 (  2, 45, 18)  0  -0.3758E-04 (  2, 45, 18)
0  -0.2579E-04 (  2, 45, 18)
   0  -0.1686E-04 (  2, 45, 18)  0   0.7660E-05 (  2, 45, 21)  0  -0.6252E-05 (  2, 38, 26)
0  -0.2606E-05 (  2, 36, 13)
   0   0.1786E-05 (  2, 44, 23)  0   0.1210E-05 (  2, 45, 18)  0  -0.7977E-06 (  2, 43, 17)
0  -0.3948E-06 (  2, 41, 24)
   1  -0.3652E-04 (  2, 38, 26)  0  -0.2853E-04 (  2, 12, 25)  0   0.3182E-04 (  2, 38, 26)
0  -0.1821E-04 (  2, 38, 26)
   0   0.1388E-04 (  2, 12, 29)  0   0.8571E-05 (  2, 43, 15)  0   0.6742E-05 (  2, 44, 16)
0   0.4553E-05 (  2, 44, 16)
   0  -0.4732E-05 (  2, 13, 35)  0  -0.2538E-05 (  2, 45, 18)  0  -0.1572E-05 (  2, 45, 18)
0  -0.7355E-06 (  2, 45, 18)
   1   0.1280E-04 (  2, 38, 26)  0  -0.8585E-05 (  2, 38, 26)  0  -0.6836E-05 (  2, 38, 26)
0  -0.3886E-05 (  2, 44, 16)
   0   0.5477E-05 (  2, 12, 29)  0  -0.2091E-05 (  2, 45, 17)  0  -0.2377E-05 (  2, 13, 35)
0   0.1585E-05 (  2, 45, 18)
   0   0.1139E-05 (  2, 45, 18)  1   0.2443E-05 (  2, 18, 24)  0  -0.3072E-05 (  2, 13, 35)
0   0.1121E-05 (  2, 40, 25)
   0   0.1177E-05 (  2, 38, 26)  0  -0.8023E-06 (  2, 13, 35)  1   0.1137E-05 (  2, 18, 24)
0

 HEAD/DRAWDOWN PRINTOUT FLAG = 1     TOTAL BUDGET PRINTOUT FLAG = 1
 CELL-BY-CELL FLOW TERM FLAG = 1

 OUTPUT FLAGS FOR EACH LAYER:
          HEAD    DRAWDOWN  HEAD  DRAWDOWN
 LAYER  PRINTOUT  PRINTOUT  SAVE    SAVE
 ----------------------------------------
    1       0         0       1       1
    2       0         0       1       1
 UBUDSV SAVING "   CONSTANT HEAD" ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "FLOW RIGHT FACE " ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "FLOW FRONT FACE " ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "FLOW LOWER FACE " ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "   RIVER LEAKAGE" ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "        RECHARGE" ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1

 HEADS AND FLOW TERMS SAVED ON UNIT 32 FOR USE BY MT3D TRANSPORT MODEL

 HEAD WILL BE SAVED ON UNIT  51 AT END OF TIME STEP  1, STRESS PERIOD  1

 DRAWDOWN WILL BE SAVED ON UNIT  52 AT END OF TIME STEP  1, STRESS PERIOD  1
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP  1 IN STRESS PERIOD  1
  ------------------------------------------------------------------------------

      CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP      L**3/T
      ------------------                 ------------------------

            IN:                                      IN:
            ---                                      ---
        CONSTANT HEAD =       1.7726E-02         CONSTANT HEAD =       1.7726E-02
        RIVER LEAKAGE =           0.0000         RIVER LEAKAGE =           0.0000
             RECHARGE =       1.8456E-03              RECHARGE =       1.8456E-03

             TOTAL IN =       1.9571E-02              TOTAL IN =       1.9571E-02

           OUT:                                     OUT:
           ----                                     ----
        CONSTANT HEAD =       9.6507E-03         CONSTANT HEAD =       9.6507E-03
        RIVER LEAKAGE =       9.9167E-03         RIVER LEAKAGE =       9.9167E-03
             RECHARGE =           0.0000              RECHARGE =           0.0000

            TOTAL OUT =       1.9567E-02             TOTAL OUT =       1.9567E-02

             IN - OUT =       3.9104E-06              IN - OUT =       3.9104E-06
```



```
 PERCENT DISCREPANCY =           0.02     PERCENT DISCREPANCY =           0.02


          TIME SUMMARY AT END OF TIME STEP  1 IN STRESS PERIOD  1
                     SECONDS     MINUTES      HOURS       DAYS        YEARS
                     ----------------------------------------------------------
   TIME STEP LENGTH  1.0000     1.66667E-02 2.77778E-04 1.15741E-05 3.16881E-08
 STRESS PERIOD TIME  1.0000     1.66667E-02 2.77778E-04 1.15741E-05 3.16881E-08
         TOTAL TIME  1.0000     1.66667E-02 2.77778E-04 1.15741E-05 3.16881E-08
1
```

```
 LISTING FILE: output.dat
                         UNIT   3

 OPENING bas.dat
 FILE TYPE:BAS   UNIT   1

 OPENING bcf.dat
 FILE TYPE:BCF   UNIT  11

 OPENING oc.dat
 FILE TYPE:OC   UNIT  22

 OPENING riv.dat
 FILE TYPE:RIV   UNIT  14

 OPENING rch.dat
 FILE TYPE:RCH   UNIT  18

 OPENING pcg2.dat
 FILE TYPE:PCG   UNIT  23

 OPENING budget.dat
 FILE TYPE:DATA(BINARY)   UNIT  50

 OPENING heads.dat
 FILE TYPE:DATA(BINARY)   UNIT  51

 OPENING ddown.dat
 FILE TYPE:DATA(BINARY)   UNIT  52

 OPENING mt3d.flo
 FILE TYPE:DATA(BINARY)   UNIT  32
1                                MODFLOW
      U.S. GEOLOGICAL SURVEY MODULAR FINITE-DIFFERENCE GROUND-WATER FLOW MODEL



 THE FREE FORMAT OPTION HAS BEEN SELECTED
    2 LAYERS        46 ROWS        40 COLUMNS
   1 STRESS PERIOD(S) IN SIMULATION
 MODEL TIME UNIT IS SECONDS

 BAS5 -- BASIC MODEL PACKAGE, VERSION 5, 1/1/95 INPUT READ FROM UNIT  1
 ARRAYS RHS AND BUFF WILL HAVE SEPARATE MEMORY ALLOCATIONS
 INITIAL HEAD WILL BE KEPT THROUGHOUT THE SIMULATION
      38734 ELEMENTS IN X ARRAY ARE USED BY BAS
      38734 ELEMENTS OF X ARRAY USED OUT OF  999999990

 BCF5 -- BLOCK-CENTERED FLOW PACKAGE, VERSION 5, 9/1/93 INPUT READ FROM UNIT 11
 STEADY-STATE SIMULATION
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 50
 HEAD AT CELLS THAT CONVERT TO DRY= -0.10000E+31
 WETTING CAPABILITY IS NOT ACTIVE
      LAYER  LAYER-TYPE CODE     INTERBLOCK T
      ---------------------------------------------
         1            3          0 -- HARMONIC
         2            3          0 -- HARMONIC
      11042 ELEMENTS IN X ARRAY ARE USED BY BCF
      49776 ELEMENTS OF X ARRAY USED OUT OF  999999990

 RIV5 -- RIVER PACKAGE, VERSION 5, 9/1/93 INPUT READ FROM UNIT 14
 MAXIMUM OF 2116 RIVER REACHES
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 50
      12696 ELEMENTS IN X ARRAY ARE USED BY RIV
      62472 ELEMENTS OF X ARRAY USED OUT OF  999999990
```



```
 RCH5 -- RECHARGE PACKAGE, VERSION 5, 6/1/95 INPUT READ FROM UNIT 18
 OPTION 3 -- RECHARGE TO HIGHEST ACTIVE NODE IN EACH VERTICAL COLUMN
 CELL-BY-CELL FLOWS WILL BE SAVED ON UNIT 50
       3680 ELEMENTS IN X ARRAY ARE USED BY RCH
      66152 ELEMENTS OF X ARRAY USED OUT OF  999999990
0PCG2 -- CONJUGATE GRADIENT SOLUTION PACKAGE, VERSION 2.1, 6/1/95
 MAXIMUM OF  50 CALLS OF SOLUTION ROUTINE
 MAXIMUM OF  30 INTERNAL ITERATIONS PER CALL TO SOLUTION ROUTINE
 MATRIX PRECONDITIONING TYPE :    1
   28220 ELEMENTS IN X ARRAY ARE USED BY PCG
   94372 ELEMENTS OF X ARRAY USED OUT OF*******
1




                      BOUNDARY ARRAY FOR LAYER   1
 READING ON UNIT   1 WITH FORMAT: (15I3)



                      BOUNDARY ARRAY FOR LAYER   2
 READING ON UNIT   1 WITH FORMAT: (15I3)

 AQUIFER HEAD WILL BE SET TO -999.99     AT ALL NO-FLOW NODES (IBOUND=0).



                        INITIAL HEAD FOR LAYER   1
 READING ON UNIT   1 WITH FORMAT: (15G14.0)



                        INITIAL HEAD FOR LAYER   2
 READING ON UNIT   1 WITH FORMAT: (15G14.0)

 OUTPUT CONTROL IS SPECIFIED EVERY TIME STEP
 HEAD PRINT FORMAT CODE IS   0    DRAWDOWN PRINT FORMAT CODE IS   0
 HEADS WILL BE SAVED ON UNIT  51    DRAWDOWNS WILL BE SAVED ON UNIT  52



           COLUMN TO ROW ANISOTROPY
 READING ON UNIT  11 WITH FORMAT: (2G14.0)



                               DELR
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                               DELC
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



              HYD. COND. ALONG ROWS FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                              BOTTOM FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)
```

```
          VERT HYD COND /THICKNESS FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                              TOP FOR LAYER   1
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



             HYD. COND. ALONG ROWS FOR LAYER   2
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                            BOTTOM FOR LAYER   2
 READING ON UNIT  11 WITH FORMAT: (15G14.0)



                              TOP FOR LAYER   2
 READING ON UNIT  11 WITH FORMAT: (15G14.0)
0


                                                        SOLUTION BY THE CONJUGATE-GRADIENT
METHOD

-----------------------------------------
0                                   MAXIMUM NUMBER OF CALLS TO PCG ROUTINE =       50
                                        MAXIMUM ITERATIONS PER CALL TO PCG =       30
                                               MATRIX PRECONDITIONING TYPE =        1
                          RELAXATION FACTOR (ONLY USED WITH PRECOND. TYPE 1) =
0.99000E+00
                    PARAMETER OF POLYMOMIAL PRECOND. = 2 (2) OR IS CALCULATED :        2
                                         HEAD CHANGE CRITERION FOR CLOSURE =
0.10000E-02
                                      RESIDUAL CHANGE CRITERION FOR CLOSURE =
0.10000E-02
                              PCG HEAD AND RESIDUAL CHANGE PRINTOUT INTERVAL =        1
                        PRINTING FROM SOLVER IS LIMITED(1) OR SUPPRESSED (>1) =        0
                                                          DAMPING PARAMETER =
0.10000E+01
1
                           STRESS PERIOD NO.   1, LENGTH =   1.000000
                           -------------------------------------------

                             NUMBER OF TIME STEPS =     1

                              MULTIPLIER FOR DELT =     1.000

                           INITIAL TIME STEP SIZE =   1.000000


   116 RIVER REACHES

 LAYER   ROW   COL     STAGE   CONDUCTANCE   BOT. ELEV.  REACH NO.
 ---------------------------------------------------------------
    2     45    35   0.5000      0.4098E-05   14.76           1
    2     45    34   0.5000      0.9457E-05   14.74           2
    2     44    34   0.5000      0.9297E-05   14.71           3
    2     44    34   0.5000      0.4147E-05   14.69           4
    2     43    34   0.5000      0.1320E-04   14.66           5
    2     42    34   0.5000      0.6995E-05   14.63           6
```



```
    2     41    34   0.5000      0.8645E-05   14.57           7
    2     40    34   0.5000      0.1318E-04   14.54           8
    2     39    33   0.5000      0.5622E-05   14.47           9
    2     38    33   0.5000      0.9719E-05   14.44          10
    2     38    32   0.5000      0.1184E-04   14.40          11
    2     37    32   0.5000      0.3496E-05   14.37          12
    2     37    31   0.5000      0.1534E-04   14.33          13
    2     37    30   0.5000      0.2727E-05   14.30          14
    2     36    30   0.5000      0.1261E-04   14.27          15
    2     35    29   0.5000      0.1534E-04   14.22          16
    2     35    28   0.5000      0.4391E-05   14.18          17
    2     34    28   0.5000      0.1095E-04   14.15          18
    2     34    27   0.5000      0.1061E-04   14.11          19
    2     33    27   0.5000      0.4727E-05   14.08          20
    2     33    26   0.5000      0.7670E-05   14.05          21
    2     33    25   0.5000      0.7670E-05   14.02          22
    2     33    24   0.5000      0.1650E-05   14.00          23
    2     32    24   0.5000      0.5507E-05   14.00          24
    2     32    23   0.5000      0.8052E-05   14.00          25
    2     31    22   0.5000      0.5980E-05   14.00          26
    2     31    21   0.5000      0.7637E-05   14.00          27
    2     30    20   0.5000      0.7245E-05   14.00          28
    2     30    19   0.5000      0.2990E-05   14.00          29
    2     29    19   0.5000      0.4903E-05   14.00          30
    2     29    18   0.5000      0.5971E-05   14.00          31
    2     28    18   0.5000      0.1614E-05   14.00          32
    2     28    17   0.5000      0.6630E-05   13.99          33
    2     28    16   0.5000      0.6630E-05   13.97          34
    2     28    15   0.5000      0.2697E-05   13.95          35
    2     27    15   0.5000      0.3933E-05   13.94          36
    2     27    14   0.5000      0.6630E-05   13.93          37
    2     27    13   0.5000      0.6382E-05   13.91          38
    2     26    13   0.5000      0.3066E-05   13.90          39
    2     26    12   0.5000      0.3449E-05   13.90          40
    2     25    12   0.5000      0.6515E-05   13.90          41
    2     24    12   0.5000      0.3257E-05   13.90          42
    2     24    12   0.5000      0.4908E-05   13.90          43
    2     23    13   0.5000      0.8038E-05   13.90          44
    2     23    14   0.5000      0.1573E-05   13.90          45
    2     23    14   0.5000      0.5213E-05   13.89          46
    2     23    15   0.5000      0.6468E-05   13.88          47
    2     23    16   0.5000      0.6468E-05   13.86          48
    2     23    17   0.5000      0.6468E-05   13.84          49
    2     24    18   0.5000      0.6468E-05   13.83          50
    2     24    19   0.5000      0.6692E-05   13.81          51
    2     24    20   0.5000      0.6457E-05   13.80          52
    2     24    21   0.5000      0.4481E-05   13.80          53
    2     23    21   0.5000      0.3963E-05   13.79          54
    2     23    22   0.5000      0.3027E-05   13.77          55
    2     22    22   0.5000      0.7320E-05   13.74          56
    2     21    22   0.5000      0.1661E-05   13.72          57
    2     21    23   0.5000      0.5658E-05   13.70          58
    2     20    23   0.5000      0.7320E-05   13.66          59
    2     19    24   0.5000      0.7520E-05   13.62          60
    2     18    24   0.5000      0.8744E-05   13.60          61
    2     17    23   0.5000      0.6967E-05   13.56          62
    2     17    22   0.5000      0.4394E-05   13.52          63
    2     16    22   0.5000      0.2573E-05   13.49          64
    2     16    21   0.5000      0.6967E-05   13.45          65
    2     16    20   0.5000      0.4609E-05   13.40          66
    2     15    20   0.5000      0.2357E-05   13.37          67
    2     15    19   0.5000      0.6967E-05   13.33          68
    2     15    18   0.5000      0.4825E-05   13.28          69
    2     14    18   0.5000      0.2142E-05   13.25          70
    2     14    17   0.5000      0.6967E-05   13.22          71
    2     14    16   0.5000      0.5040E-05   13.17          72
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2	13	16	0.5000	0.1927E-05	13.14	73
2	13	15	0.5000	0.6967E-05	13.10	74
2	13	14	0.5000	0.5255E-05	13.05	75
2	12	14	0.5000	0.1712E-05	13.02	76
2	12	13	0.5000	0.1903E-05	13.01	77
2	12	13	0.5000	0.7785E-05	13.00	78
2	12	13	0.5000	0.2152E-05	12.99	79
2	12	14	0.5000	0.2971E-05	12.98	80
2	11	14	0.5000	0.4907E-05	12.96	81
2	11	15	0.5000	0.7878E-05	12.93	82
2	11	16	0.5000	0.7878E-05	12.89	83
2	10	17	0.5000	0.7878E-05	12.85	84
2	10	18	0.5000	0.7878E-05	12.81	85
2	10	19	0.5000	0.4654E-05	12.78	86
2	9	19	0.5000	0.3224E-05	12.76	87
2	9	20	0.5000	0.7878E-05	12.73	88
2	9	21	0.5000	0.7878E-05	12.69	89
2	9	22	0.5000	0.1557E-05	12.67	90
2	8	22	0.5000	0.6321E-05	12.65	91
2	8	23	0.5000	0.6086E-05	12.62	92
2	8	23	0.5000	0.1503E-05	12.60	93
2	8	24	0.5000	0.6610E-05	12.57	94
2	8	25	0.5000	0.6610E-05	12.53	95
2	8	26	0.5000	0.8484E-05	12.48	96
2	9	27	0.5000	0.8192E-05	12.43	97
2	9	27	0.5000	0.2982E-05	12.39	98
2	9	28	0.5000	0.1250E-04	12.34	99
2	9	29	0.5000	0.1372E-04	12.25	100
2	9	30	0.5000	0.1226E-04	12.16	101
2	9	31	0.5000	0.1359E-04	12.07	102
2	10	32	0.5000	0.2721E-05	12.01	103
2	10	32	0.5000	0.1013E-04	11.98	104
2	9	33	0.5000	0.1267E-04	11.92	105
2	9	34	0.5000	0.1267E-04	11.86	106
2	9	35	0.5000	0.6459E-05	11.82	107
2	9	35	0.5000	0.8008E-05	11.78	108
2	9	36	0.5000	0.2931E-05	11.75	109
2	8	36	0.5000	0.1341E-04	11.70	110
2	8	37	0.5000	0.6000E-05	11.65	111
2	7	37	0.5000	0.5916E-05	11.62	112
2	7	37	0.5000	0.6557E-05	11.58	113
2	8	38	0.5000	0.1296E-04	11.53	114
2	8	39	0.5000	0.8549E-05	11.47	115
2	9	39	0.5000	0.6811E-05	11.43	116

RECHARGE

READING ON UNIT 18 WITH FORMAT: (15G14.0)

CELL CONVERSIONS FOR ITER.= 1 LAYER= 1 STEP= 1 PERIOD= 1 (ROW,COL)

DRY(2, 40)	DRY(3, 40)	DRY(4, 40)	DRY(5, 40)	DRY(6, 40)
DRY(7, 23)	DRY(7, 24)	DRY(7, 40)	DRY(8, 20)	DRY(8, 21)
DRY(8, 22)	DRY(8, 23)	DRY(8, 24)	DRY(8, 40)	DRY(9, 18)
DRY(9, 19)	DRY(9, 20)	DRY(9, 21)	DRY(9, 22)	DRY(9, 23)
DRY(9, 24)	DRY(9, 25)	DRY(9, 26)	DRY(9, 40)	DRY(10, 16)
DRY(10, 17)	DRY(10, 18)	DRY(10, 19)	DRY(10, 20)	DRY(10, 21)
DRY(10, 22)	DRY(10, 23)	DRY(10, 24)	DRY(10, 25)	DRY(10, 26)
DRY(11, 14)	DRY(11, 15)	DRY(11, 16)	DRY(11, 17)	DRY(11, 18)
DRY(11, 19)	DRY(11, 20)	DRY(11, 21)	DRY(11, 22)	DRY(11, 23)
DRY(11, 24)	DRY(11, 25)	DRY(11, 26)	DRY(11, 27)	DRY(12, 13)
DRY(12, 14)	DRY(12, 15)	DRY(12, 16)	DRY(12, 17)	DRY(12, 18)
DRY(12, 19)	DRY(12, 20)	DRY(12, 21)	DRY(12, 22)	DRY(12, 23)
DRY(12, 24)	DRY(12, 25)	DRY(12, 26)	DRY(12, 27)	DRY(13, 13)
DRY(13, 14)	DRY(13, 15)	DRY(13, 16)	DRY(13, 17)	DRY(13, 18)
DRY(13, 19)	DRY(13, 20)	DRY(13, 21)	DRY(13, 22)	DRY(13, 23)

DRY(13, 24)	DRY(13, 25)	DRY(14, 12)	DRY(14, 13)	DRY(14, 14)
DRY(14, 15)	DRY(14, 16)	DRY(14, 17)	DRY(14, 18)	DRY(14, 19)
DRY(14, 20)	DRY(14, 21)	DRY(14, 22)	DRY(14, 23)	DRY(14, 24)
DRY(15, 12)	DRY(15, 13)	DRY(15, 14)	DRY(15, 15)	DRY(15, 16)
DRY(15, 17)	DRY(15, 18)	DRY(15, 19)	DRY(15, 20)	DRY(15, 21)
DRY(15, 22)	DRY(15, 23)	DRY(15, 24)	DRY(16, 12)	DRY(16, 13)
DRY(16, 14)	DRY(16, 15)	DRY(16, 16)	DRY(16, 17)	DRY(16, 18)
DRY(16, 19)	DRY(16, 20)	DRY(16, 21)	DRY(16, 22)	DRY(16, 23)
DRY(16, 24)	DRY(16, 25)	DRY(17, 11)	DRY(17, 12)	DRY(17, 13)
DRY(17, 14)	DRY(17, 15)	DRY(17, 16)	DRY(17, 17)	DRY(17, 18)
DRY(17, 19)	DRY(17, 20)	DRY(17, 21)	DRY(17, 22)	DRY(17, 23)
DRY(17, 24)	DRY(17, 25)	DRY(18, 11)	DRY(18, 12)	DRY(18, 13)
DRY(18, 14)	DRY(18, 15)	DRY(18, 16)	DRY(18, 17)	DRY(18, 18)
DRY(18, 19)	DRY(18, 20)	DRY(18, 21)	DRY(18, 22)	DRY(18, 23)
DRY(18, 24)	DRY(18, 25)	DRY(19, 11)	DRY(19, 12)	DRY(19, 13)
DRY(19, 14)	DRY(19, 15)	DRY(19, 16)	DRY(19, 17)	DRY(19, 18)
DRY(19, 19)	DRY(19, 20)	DRY(19, 21)	DRY(19, 22)	DRY(19, 23)
DRY(19, 24)	DRY(20, 12)	DRY(20, 13)	DRY(20, 14)	DRY(20, 15)
DRY(20, 16)	DRY(20, 17)	DRY(20, 18)	DRY(20, 19)	DRY(20, 20)
DRY(20, 21)	DRY(20, 22)	DRY(20, 23)	DRY(20, 24)	DRY(21, 11)
DRY(21, 12)	DRY(21, 13)	DRY(21, 14)	DRY(21, 15)	DRY(21, 16)
DRY(21, 17)	DRY(21, 18)	DRY(21, 19)	DRY(21, 20)	DRY(21, 21)
DRY(21, 22)	DRY(21, 23)	DRY(21, 24)	DRY(22, 11)	DRY(22, 12)
DRY(22, 13)	DRY(22, 14)	DRY(22, 15)	DRY(22, 16)	DRY(22, 17)
DRY(22, 18)	DRY(22, 19)	DRY(22, 20)	DRY(22, 21)	DRY(22, 22)
DRY(22, 23)	DRY(22, 24)	DRY(23, 10)	DRY(23, 11)	DRY(23, 12)
DRY(23, 13)	DRY(23, 14)	DRY(23, 15)	DRY(23, 16)	DRY(23, 17)
DRY(23, 18)	DRY(23, 19)	DRY(23, 20)	DRY(23, 21)	DRY(23, 22)
DRY(23, 23)	DRY(23, 24)	DRY(24, 10)	DRY(24, 11)	DRY(24, 12)
DRY(24, 13)	DRY(24, 14)	DRY(24, 15)	DRY(24, 16)	DRY(24, 17)
DRY(24, 18)	DRY(24, 19)	DRY(24, 20)	DRY(24, 21)	DRY(24, 22)
DRY(24, 23)	DRY(24, 24)	DRY(24, 25)	DRY(25, 10)	DRY(25, 11)
DRY(25, 12)	DRY(25, 13)	DRY(25, 14)	DRY(25, 15)	DRY(25, 16)
DRY(25, 17)	DRY(25, 18)	DRY(25, 19)	DRY(25, 20)	DRY(25, 21)
DRY(25, 22)	DRY(25, 23)	DRY(25, 24)	DRY(25, 27)	DRY(26, 11)
DRY(26, 12)	DRY(26, 13)	DRY(26, 14)	DRY(26, 15)	DRY(26, 16)
DRY(26, 17)	DRY(26, 18)	DRY(26, 19)	DRY(26, 20)	DRY(26, 21)
DRY(26, 22)	DRY(26, 23)	DRY(26, 24)	DRY(26, 25)	DRY(26, 26)
DRY(26, 27)	DRY(27, 11)	DRY(27, 12)	DRY(27, 13)	DRY(27, 14)
DRY(27, 15)	DRY(27, 16)	DRY(27, 17)	DRY(27, 18)	DRY(27, 19)
DRY(27, 20)	DRY(27, 21)	DRY(27, 22)	DRY(27, 23)	DRY(27, 24)
DRY(27, 25)	DRY(27, 26)	DRY(27, 27)	DRY(27, 28)	DRY(28, 11)
DRY(28, 12)	DRY(28, 13)	DRY(28, 14)	DRY(28, 15)	DRY(28, 16)
DRY(28, 17)	DRY(28, 18)	DRY(28, 19)	DRY(28, 20)	DRY(28, 21)
DRY(28, 22)	DRY(28, 23)	DRY(28, 24)	DRY(28, 25)	DRY(28, 26)
DRY(28, 27)	DRY(28, 28)	DRY(29, 11)	DRY(29, 12)	DRY(29, 13)
DRY(29, 14)	DRY(29, 15)	DRY(29, 16)	DRY(29, 17)	DRY(29, 18)
DRY(29, 19)	DRY(29, 20)	DRY(29, 21)	DRY(29, 22)	DRY(29, 23)
DRY(29, 24)	DRY(29, 25)	DRY(29, 26)	DRY(29, 27)	DRY(29, 28)
DRY(29, 29)	DRY(30, 10)	DRY(30, 11)	DRY(30, 12)	DRY(30, 13)
DRY(30, 14)	DRY(30, 15)	DRY(30, 16)	DRY(30, 17)	DRY(30, 18)
DRY(30, 19)	DRY(30, 20)	DRY(30, 21)	DRY(30, 22)	DRY(30, 23)
DRY(30, 24)	DRY(30, 25)	DRY(30, 26)	DRY(30, 27)	DRY(30, 28)
DRY(30, 29)	DRY(31, 10)	DRY(31, 11)	DRY(31, 12)	DRY(31, 13)
DRY(31, 14)	DRY(31, 15)	DRY(31, 16)	DRY(31, 17)	DRY(31, 18)
DRY(31, 19)	DRY(31, 20)	DRY(31, 21)	DRY(31, 22)	DRY(31, 23)
DRY(31, 24)	DRY(31, 25)	DRY(31, 26)	DRY(31, 27)	DRY(31, 28)
DRY(31, 29)	DRY(31, 30)	DRY(32, 10)	DRY(32, 11)	DRY(32, 12)
DRY(32, 13)	DRY(32, 14)	DRY(32, 15)	DRY(32, 16)	DRY(32, 17)
DRY(32, 18)	DRY(32, 19)	DRY(32, 20)	DRY(32, 21)	DRY(32, 22)
DRY(32, 23)	DRY(32, 24)	DRY(32, 25)	DRY(32, 26)	DRY(32, 27)
DRY(32, 28)	DRY(32, 29)	DRY(32, 30)	DRY(33, 10)	DRY(33, 11)
DRY(33, 12)	DRY(33, 13)	DRY(33, 14)	DRY(33, 15)	DRY(33, 16)
DRY(33, 17)	DRY(33, 18)	DRY(33, 19)	DRY(33, 20)	DRY(33, 21)
DRY(33, 22)	DRY(33, 23)	DRY(33, 24)	DRY(33, 25)	DRY(33, 26)
DRY(33, 27)	DRY(33, 28)	DRY(33, 29)	DRY(33, 30)	DRY(34, 15)

```
   DRY( 34, 16)   DRY( 34, 17)   DRY( 34, 18)   DRY( 34, 19)   DRY( 34, 20)
   DRY( 34, 21)   DRY( 34, 22)   DRY( 34, 23)   DRY( 34, 24)   DRY( 34, 25)
   DRY( 34, 26)   DRY( 34, 27)   DRY( 34, 28)   DRY( 34, 29)   DRY( 34, 30)
   DRY( 35, 16)   DRY( 35, 17)   DRY( 35, 18)   DRY( 35, 19)   DRY( 35, 20)
   DRY( 35, 21)   DRY( 35, 22)   DRY( 35, 23)   DRY( 35, 24)   DRY( 35, 25)
   DRY( 35, 26)   DRY( 35, 27)   DRY( 35, 28)   DRY( 35, 29)   DRY( 35, 30)
   DRY( 35, 31)   DRY( 36, 16)   DRY( 36, 17)   DRY( 36, 18)   DRY( 36, 19)
   DRY( 36, 20)   DRY( 36, 21)   DRY( 36, 22)   DRY( 36, 23)   DRY( 36, 24)
   DRY( 36, 25)   DRY( 36, 26)   DRY( 36, 27)   DRY( 36, 28)   DRY( 36, 29)
   DRY( 36, 30)   DRY( 36, 31)   DRY( 36, 32)   DRY( 37, 19)   DRY( 37, 20)
   DRY( 37, 21)   DRY( 37, 22)   DRY( 37, 23)   DRY( 37, 24)   DRY( 37, 25)
   DRY( 37, 26)   DRY( 37, 27)   DRY( 37, 28)   DRY( 37, 29)   DRY( 37, 30)
   DRY( 37, 31)   DRY( 37, 32)   DRY( 38, 21)   DRY( 38, 22)   DRY( 38, 23)
   DRY( 38, 24)   DRY( 38, 25)   DRY( 38, 26)   DRY( 38, 27)   DRY( 38, 28)
   DRY( 38, 29)   DRY( 38, 30)   DRY( 38, 31)   DRY( 38, 32)   DRY( 38, 33)
   DRY( 39, 19)   DRY( 39, 20)   DRY( 39, 21)   DRY( 39, 22)   DRY( 39, 23)
   DRY( 39, 24)   DRY( 39, 25)   DRY( 39, 26)   DRY( 39, 27)   DRY( 39, 28)
   DRY( 39, 29)   DRY( 39, 30)   DRY( 39, 31)   DRY( 39, 32)   DRY( 39, 33)
   DRY( 40, 17)   DRY( 40, 18)   DRY( 40, 19)   DRY( 40, 20)   DRY( 40, 21)
   DRY( 40, 22)   DRY( 40, 23)   DRY( 40, 24)   DRY( 40, 25)   DRY( 40, 26)
   DRY( 40, 27)   DRY( 40, 28)   DRY( 40, 29)   DRY( 40, 30)   DRY( 40, 31)
   DRY( 40, 32)   DRY( 40, 33)   DRY( 40, 34)   DRY( 41, 23)   DRY( 41, 24)
   DRY( 41, 25)   DRY( 41, 26)   DRY( 41, 27)   DRY( 41, 28)   DRY( 41, 29)
   DRY( 41, 30)   DRY( 41, 31)   DRY( 41, 32)   DRY( 41, 33)   DRY( 41, 34)
   DRY( 42, 23)   DRY( 42, 24)   DRY( 42, 25)   DRY( 42, 26)   DRY( 42, 27)
   DRY( 42, 28)   DRY( 42, 29)   DRY( 42, 30)   DRY( 42, 31)   DRY( 42, 32)
   DRY( 42, 33)   DRY( 42, 34)   DRY( 43, 26)   DRY( 43, 27)   DRY( 43, 28)
   DRY( 43, 29)   DRY( 43, 30)   DRY( 43, 31)   DRY( 43, 32)   DRY( 43, 33)
   DRY( 43, 34)   DRY( 44, 27)   DRY( 44, 28)   DRY( 44, 29)   DRY( 44, 30)
   DRY( 44, 31)   DRY( 44, 32)   DRY( 44, 33)   DRY( 44, 34)   DRY( 44, 35)
   DRY( 45, 28)   DRY( 45, 29)   DRY( 45, 30)   DRY( 45, 31)   DRY( 45, 32)
   DRY( 45, 33)   DRY( 45, 34)   DRY( 45, 35)   DRY( 46, 28)   DRY( 46, 29)
   DRY( 46, 30)   DRY( 46, 31)   DRY( 46, 32)   DRY( 46, 33)   DRY( 46, 34)
   DRY( 46, 35)

 CELL CONVERSIONS FOR ITER.=  2  LAYER=  1  STEP=  1  PERIOD=  1   (ROW,COL)
   DRY(  3, 39)   DRY(  4, 36)   DRY(  4, 37)   DRY(  4, 38)   DRY(  4, 39)
   DRY(  5, 32)   DRY(  5, 33)   DRY(  5, 34)   DRY(  5, 35)   DRY(  5, 36)
   DRY(  5, 37)   DRY(  5, 38)   DRY(  5, 39)   DRY(  6, 29)   DRY(  6, 30)
   DRY(  6, 31)   DRY(  6, 32)   DRY(  6, 33)   DRY(  6, 34)   DRY(  6, 35)
   DRY(  6, 36)   DRY(  6, 37)   DRY(  6, 38)   DRY(  6, 39)   DRY(  7, 25)
   DRY(  7, 26)   DRY(  7, 27)   DRY(  7, 28)   DRY(  7, 29)   DRY(  7, 30)
   DRY(  7, 31)   DRY(  7, 32)   DRY(  7, 33)   DRY(  7, 34)   DRY(  7, 35)
   DRY(  7, 36)   DRY(  7, 37)   DRY(  7, 38)   DRY(  7, 39)   DRY(  8, 25)
   DRY(  8, 26)   DRY(  8, 27)   DRY(  8, 28)   DRY(  8, 29)   DRY(  8, 30)
   DRY(  8, 31)   DRY(  8, 32)   DRY(  8, 33)   DRY(  8, 34)   DRY(  8, 35)
   DRY(  8, 36)   DRY(  8, 37)   DRY(  8, 38)   DRY(  8, 39)   DRY(  9, 27)
   DRY(  9, 28)   DRY(  9, 29)   DRY(  9, 30)   DRY(  9, 31)   DRY(  9, 32)
   DRY(  9, 33)   DRY(  9, 34)   DRY(  9, 35)   DRY(  9, 36)   DRY(  9, 37)
   DRY(  9, 38)   DRY(  9, 39)   DRY( 10, 27)   DRY( 10, 28)   DRY( 10, 29)
   DRY( 10, 30)   DRY( 10, 31)   DRY( 10, 32)   DRY( 10, 33)   DRY( 10, 34)
   DRY( 10, 35)   DRY( 10, 36)   DRY( 11, 28)   DRY( 11, 29)   DRY( 11, 30)
   DRY( 11, 31)   DRY( 11, 32)   DRY( 11, 33)
0
     6 CALLS TO PCG ROUTINE FOR TIME STEP   1 IN STRESS PERIOD  1
    57 TOTAL ITERATIONS
0MAXIMUM HEAD CHANGE FOR EACH ITERATION (1 INDICATES THE FIRST INNER ITERATION):
0    HEAD CHANGE  LAYER,ROW,COL    HEAD CHANGE  LAYER,ROW,COL    HEAD CHANGE  LAYER,ROW,COL
  HEAD CHANGE  LAYER,ROW,COL

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----------------------------
   1   -7.334     (  2, 19, 16)  0   -6.604     (  2, 13, 35)  0   -2.701     (  2, 13, 28)
0    2.014     (  2, 13, 35)
   0   -1.745     (  2, 13, 35)  0  -0.5665     (  2, 38, 26)  0  -0.8767     (  2, 13, 28)
0   0.6566     (  2, 13, 28)
```



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   0  -0.2820     (  2, 38, 26)  0  -0.1549     (  2, 36, 11)  0  -0.1638     (  2, 38, 26)
0  -0.1037     (  2, 30, 25)
   0  -0.6077E-01 (  2, 39, 26)  0  -0.2275E-01 (  2, 14, 34)  0  -0.1268E-01 (  2, 12, 25)
0   0.9300E-02 (  2, 10, 19)
   0   0.5452E-02 (  2, 13, 17)  0   0.3665E-02 (  2, 12, 29)  0   0.3770E-02 (  2, 13, 35)
0  -0.1431E-02 (  2, 13, 35)
   0   0.8441E-03 (  2, 17,  8)  1   0.2601     (  2, 38, 26)  0  -0.1641     (  2, 12, 26)
0  -0.1405     (  2, 13, 28)
   0  -0.1091     (  2, 12, 25)  0   0.7699E-01 (  2, 32, 25)  0  -0.6519E-01 (  2, 13, 28)
0   0.4343E-01 (  2, 13, 28)
   0  -0.2379E-01 (  2, 13, 28)  0   0.1712E-01 (  2, 13, 35)  0   0.1072E-01 (  2,  7, 24)
0   0.7290E-02 (  2, 13, 24)
   0   0.4367E-02 (  2, 13, 18)  0   0.2760E-02 (  2, 13, 23)  0   0.8922E-03 (  2, 12, 36)
1  -0.3192E-01 (  2, 37, 14)
   0   0.1655E-01 (  2, 29,  8)  0  -0.1885E-01 (  2, 13, 28)  0  -0.1031E-01 (  2, 12, 26)
0   0.9222E-02 (  2, 12, 25)
   0   0.6674E-02 (  2, 13, 35)  0   0.2536E-02 (  2, 40, 26)  0  -0.2263E-02 (  2, 12, 29)
0  -0.3188E-02 (  2, 13, 28)
   0   0.1273E-02 (  2, 39, 12)  0   0.7850E-03 (  2, 34, 13)  1  -0.4579E-02 (  2, 38, 26)
0   0.2785E-02 (  2, 13, 28)
   0   0.3934E-02 (  2, 13, 35)  0  -0.2568E-02 (  2, 38, 26)  0  -0.1390E-02 (  2, 12, 26)
0   0.1049E-02 (  2, 12, 25)
   0   0.8795E-03 (  2, 13, 28)  1  -0.1246E-02 (  2, 13, 28)  0   0.1284E-02 (  2, 13, 28)
0   0.5137E-03 (  2, 12, 26)
   1  -0.4568E-03 (  2, 12, 25)
0
0MAXIMUM RESIDUAL FOR EACH ITERATION (1 INDICATES THE FIRST INNER ITERATION):
0     RESIDUAL    LAYER,ROW,COL     RESIDUAL    LAYER,ROW,COL     RESIDUAL    LAYER,ROW,COL
   RESIDUAL    LAYER,ROW,COL

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----------------------------
   1  -0.1733E-01 (  2, 19, 19)  0  -0.1537E-01 (  2, 13, 35)  0  -0.6781E-02 (  2, 19, 13)
0   0.5806E-02 (  2, 13, 35)
   0  -0.3325E-02 (  2, 12, 39)  0  -0.1652E-02 (  2, 12, 29)  0   0.1236E-02 (  2, 12, 29)
0   0.7321E-03 (  2, 19, 20)
   0  -0.4780E-03 (  2, 38, 26)  0  -0.4835E-03 (  2,  4, 38)  0  -0.4339E-03 (  2,  4, 38)
0  -0.2253E-03 (  2, 19, 20)
   0  -0.1099E-03 (  2, 19, 20)  0   0.7058E-04 (  2, 12, 25)  0   0.5332E-04 (  2, 19, 23)
0   0.2676E-04 (  2, 19, 23)
   0  -0.1310E-04 (  2, 12, 39)  0   0.7405E-05 (  2,  5, 37)  0   0.8427E-05 (  2, 13, 35)
0  -0.5808E-05 (  2, 19, 23)
   0  -0.3172E-05 (  2, 19, 23)  1   0.3504E-03 (  2, 38, 26)  0  -0.2592E-03 (  2, 38, 26)
0   0.1754E-03 (  2, 12, 25)
   0  -0.1100E-03 (  2, 45, 17)  0  -0.9600E-04 (  2, 13, 35)  0   0.7054E-04 (  2, 45, 18)
0   0.5082E-04 (  2, 45, 18)
   0  -0.4125E-04 (  2, 13, 35)  0  -0.2202E-04 (  2, 23, 17)  0  -0.1498E-04 (  2, 45, 20)
0   0.9175E-05 (  2, 20, 22)
   0   0.5311E-05 (  2, 45, 22)  0   0.2122E-05 (  2, 45, 20)  0   0.1398E-05 (  2,  4, 39)
1   0.3800E-04 (  2, 37, 27)
   0  -0.3561E-04 (  2, 13, 35)  0   0.1898E-04 (  2, 45, 17)  0  -0.1742E-04 (  2, 12, 25)
0  -0.1444E-04 (  2, 13, 35)
   0  -0.1053E-04 (  2, 45, 18)  0  -0.5845E-05 (  2, 45, 18)  0  -0.3946E-05 (  2, 12, 29)
0   0.2877E-05 (  2, 45, 22)
   0   0.1808E-05 (  2, 45, 19)  0   0.1148E-05 (  2, 45, 18)  1  -0.6844E-05 (  2, 38, 26)
0  -0.4335E-05 (  2, 13, 35)
   0   0.6410E-05 (  2, 13, 35)  0  -0.2979E-05 (  2, 38, 26)  0   0.1937E-05 (  2, 44, 16)
0   0.1690E-05 (  2, 45, 17)
   0   0.1223E-05 (  2, 45, 17)  1   0.1427E-05 (  2, 38, 26)  0  -0.1054E-05 (  2, 12, 29)
0  -0.1031E-05 (  2, 38, 26)
   1  -0.5510E-06 (  2, 12, 25)
0

 HEAD/DRAWDOWN PRINTOUT FLAG = 1     TOTAL BUDGET PRINTOUT FLAG = 1
 CELL-BY-CELL FLOW TERM FLAG = 1
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                              STANLEY FERRY GW NORTHERN EXTENSION
 OUTPUT FLAGS FOR EACH LAYER:
          HEAD    DRAWDOWN  HEAD  DRAWDOWN
 LAYER  PRINTOUT  PRINTOUT  SAVE    SAVE
 ----------------------------------------
    1       0         0       1       1
    2       0         0       1       1
 UBUDSV SAVING "   CONSTANT HEAD" ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "FLOW RIGHT FACE " ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "FLOW FRONT FACE " ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "FLOW LOWER FACE " ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "   RIVER LEAKAGE" ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1
 UBUDSV SAVING "        RECHARGE" ON UNIT 50 AT TIME STEP  1, STRESS PERIOD  1

 HEADS AND FLOW TERMS SAVED ON UNIT 32 FOR USE BY MT3D TRANSPORT MODEL

 HEAD WILL BE SAVED ON UNIT  51 AT END OF TIME STEP  1, STRESS PERIOD  1

 DRAWDOWN WILL BE SAVED ON UNIT  52 AT END OF TIME STEP  1, STRESS PERIOD  1
1
  VOLUMETRIC BUDGET FOR ENTIRE MODEL AT END OF TIME STEP  1 IN STRESS PERIOD  1
  ------------------------------------------------------------------------------

      CUMULATIVE VOLUMES      L**3       RATES FOR THIS TIME STEP      L**3/T
      ------------------                 ------------------------

            IN:                                      IN:
            ---                                      ---
        CONSTANT HEAD =       1.1719E-02         CONSTANT HEAD =       1.1719E-02
        RIVER LEAKAGE =           0.0000         RIVER LEAKAGE =           0.0000
             RECHARGE =       1.8552E-03              RECHARGE =       1.8552E-03

             TOTAL IN =       1.3574E-02              TOTAL IN =       1.3574E-02

           OUT:                                     OUT:
           ----                                     ----
        CONSTANT HEAD =       3.7324E-03         CONSTANT HEAD =       3.7324E-03
        RIVER LEAKAGE =       9.8513E-03         RIVER LEAKAGE =       9.8513E-03
             RECHARGE =           0.0000              RECHARGE =           0.0000

            TOTAL OUT =       1.3584E-02             TOTAL OUT =       1.3584E-02

             IN - OUT =      -1.0002E-05              IN - OUT =      -1.0002E-05

 PERCENT DISCREPANCY =          -0.07     PERCENT DISCREPANCY =          -0.07




           TIME SUMMARY AT END OF TIME STEP  1 IN STRESS PERIOD  1
                     SECONDS     MINUTES      HOURS       DAYS        YEARS
                     -----------------------------------------------------------
    TIME STEP LENGTH  1.0000     1.66667E-02 2.77778E-04 1.15741E-05 3.16881E-08
 STRESS PERIOD TIME  1.0000     1.66667E-02 2.77778E-04 1.15741E-05 3.16881E-08
         TOTAL TIME  1.0000     1.66667E-02 2.77778E-04 1.15741E-05 3.16881E-08
1
```